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Geological aspects of the voyage of HMS *Investigator* in Australian Waters, 1801–5

T. G. Vallance & D. T. Moore

Historical series Vol 10 No 1 28 January 1982

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Geological aspects of the voyage of HMS *Investigator* in Australian Waters, 1801–5

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Synopsis

The voyage of HMS *Investigator* (1801–5) is remembered by natural scientists chiefly for the botanical work of Robert Brown. That there was even a subsidiary effort directed to mineralogy or geology owes much to the enthusiasm of the commander, Matthew Flinders, R.N., and little to the Admiralty's scientific adviser, Sir Joseph Banks. The geological collections made during the expedition to Australia are used here as a key to elucidating a neglected aspect of this venture. What remains of the collections, after 171 years in the keeping of the British Museum (where they constitute the oldest expedition collection of rocks from any part of the world), has now been set in order and related to the records of the expedition. If the geological achievement lies principally in what at the time was called *mineral geography*, at least Brown's discoveries of fossils led to pioneering work in the stratigraphy of Australia. In general, however, the later record is one of sorry neglect. Through ignorance of Brown's collection, for instance, the manganese deposits he found in northern Australia during 1803 have had to be rediscovered during the present century.

Prelude

Among hydrographers and botanists the voyage of HMS *Investigator* is justly renowned. Achievements in these fields have united with the remarkable conjunction of resource, courage and misfortune that marked the command of Matthew Flinders (1774–1814) to fascinate later generations. The expedition had been despatched to further the interests of maritime survey and natural history but, as one finds in the instructions (Flinders, 1814, **1**, pp 8–12) issued by the Lords Commissioner of the Admiralty, the latter department was narrowly conceived. Those instructions refer in some detail to the botanical duties of a naturalist and a gardener. One of the two artists assigned to the expedition was a botanical painter. Nothing is said in the instructions

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about a 'practical miner' who, with a landscape painter, completed the civilian party. What could a miner contribute to a botanical survey, if that were intended? The record of the expedition, both in its planning and execution, shows botany to have been the aim of Sir Joseph Banks (1743–1820), to whom the Admiralty turned for advice in science. Banks imposed his own interests but others, not least Flinders himself, had made representations in favour of bringing geological effort within the scope of the voyage. The practical miner seems to have been Banks's answer, an answer that demanded invention of a role for the man and which, in turn, betrays the limits of Banksian vision in science. Yet there was a geological side to the voyage. In this study we examine a neglected field, relying chiefly on contemporary documents and collections.

The commissioners' failure to express a geological interest, no matter what the reason, contrasts strangely with earlier practice. More than a century before, knowledge of the great mineral treasures yielded by Africa and South America had brought many Europeans to believe that all southern lands were similarly endowed. William Dampier (1652–1715), the first English captain to visit what the Dutch called New Holland, held such views and returned there at the behest of the Admiralty in 1699. He may not have found anything to encourage the notion that the land abounded in valuable minerals (Dampier, 1703, p. 138) but hope persisted. James Cook (1728–1779) was advised to look out for precious materials in appropriate latitudes. He carried with him on his first voyage (1768–1771) round the world a set of 'Hints' of a scientific nature, prepared by James Douglas, 14th Earl of Morton (1702–1768), then president of the Royal Society. The hints included a section headed *Minerals & Fossils* (Beaglehole, 1955, pp 518–519). The remarkable R. E. Raspe (1737–1794), with an eye to private advantage, in 1776 set down his geological thoughts (BL Add MS 30262 ff 11–12) for Cook before the last voyage. Even Joseph Banks who, with his private staff, accompanied Cook when the eastern shore of New Holland was found and called New South Wales, was moved to express a passing thought about the mineral potential of New Zealand (Beaglehole, 1962, **1** p. 472; **2** p. 4). In New South Wales he seemed interested only in the plants and animals.

Banks's close interest in Australasia and aspects of its natural history, bred on that voyage with Cook, remained strong. Elected president of the Royal Society in 1778, an office he held for the rest of his life, Banks became a powerful advocate of Australian settlement and exploration. When a penal colony was established at Sydney Cove in 1788 the founding officers were his correspondents, supplying him with specimens, observations and advice. They, and their successors, knew his particular inclination to botany and sought to please so influential a patron.

The remote settlement at Sydney, in its early years, was utterly dependent on supplies brought across uncharted seas. There was a clear and urgent need for a coastal survey but exploration of more than the most local kind lay beyond colonial capacity. By 1795 only some 100 miles of coast north and south of Sydney had been examined and that in no great detail (Flinders, 1814, **1**, p. xcvi). As Flinders was at pains to point out, that year marked something of a change in the pace of survey. It was when he arrived in the colony on the vessel bringing a new colonial governor, John Hunter (1737–1821). Flinders had already been in Australian waters. Some years before, as a junior officer under William Bligh (1754–1817), he had charted part of Adventure Bay, Van Diemen's Land (Tasmania). That visit in 1792 and, in fact, the whole voyage with Bligh, seems to have quickened his interest in geology (Vallance, 1975, p. 23) as well as helped develop an enthusiasm for maritime surveying.

From 1795 until early 1800, Flinders often in company with his friend George Bass (1771–1803) used what vessels could be spared in Sydney, even rowing-boats, to extend the survey of the coasts. Hunter encouraged the effort. He reported progress to Banks but Hunter's pleas for more worthy support for the cause of exploration brought no immediate practical response. Britain was at war and survey-work in remote parts had no priority. Nevertheless Hunter had sown seed in fertile ground. Thanks to his reports Banks knew something of Flinders's enthusiasm and skill in map-making.

Flinders returned to England during August 1800 and lost little time in reporting to Banks. On 6 September he wrote a long letter (Mitchell Lib., Sydney. Banks Paps. **XX**, 59) outlining his work on the coast of New South Wales and how it might be developed. That so much of 'that still extensive country remains either totally unknown, or has been partially examined at a time when navigation was much less advanced than at present' seemed justification enough for a thorough survey but Flinders also appealed through natural history for Banks's support. The theme Flinders chose to emphasize is revealing:

> Then a person or persons could be accomodated who should examine into the natural productions of this wonderful country, for surely what has already been found is materially different from all others; and the mineralogical branch would probably not be the least interesting.

It was not the first time Banks had been urged to support mineralogical study in Australia. Hunter, writing 1 August 1797 (BM (NH) DTC **10**(2) 108), made a similar point. Some, like a certain Baron Wilhelm von Fürk of Hamburg (Fürk to Banks, 20 Dec. 1801. Mitchell Lib., Sydney. Brabourne Paps. **10**, 331), even offered to go out in the service of mineralogy. And not only Banks at this time heard of the advantages of geological exploration in New South Wales. John Mawe (1764–1829) the mineralogist and dealer prepared a detailed statement for Lord Pelham outlining a plan for a mineralogical expedition to New South Wales (BL Add MS 33124 ff 109–116). The document is undated but the following remarks suggest preparation in 1799 or 1800:

> ... I was informd it is promulgated to send men to our Colony in New South Wales, if so it will be truly mortifying to see the French publish the Geology of our Settlements &c or working mines in our Colonies, for by thus employing Mineralogists, they [the French] render as it where, a bounty for Discovery ...

Mawe had been well-informed; a surveying expedition with two vessels and a large staff of scientists, among them two trained mineralogists (Louis Depuch (d. 1803) and J. C. Bailly (1777–1844)), left France for Australia under the command of Nicolas Baudin (1754–1803) in October 1800, before Banks had responded to Flinders' letter. Banks knew details of the French scheme for he had been instrumental in securing issue of a passport for the vessels in case of war.

Banks acted swiftly after meeting Flinders. A plan for an Australian expedition was approved at the Admiralty and sanctioned by the King in a matter of days. Before the end of November 1800 a vessel had been chosen and ordered to be prepared. But the Admiralty left matters scientific to Banks. He determined the botanical flavour. Changes in the ship were made to accommodate more plants, at Banks's direction. If Flinders still hoped to have a mineralogist, and it is interesting to note his letter of 24 January 1801 (*HR NSW*, **4**, 291) advising Banks of modifications to accommodate botanical materials *and* the collections of the mineralogist, Banks clearly had other ideas. There was to be one naturalist and he a botanist.

For the post of naturalist, Banks turned to Robert Brown (1773–1858), then ensign and assistant surgeon with the Fifeshire Fencibles on duty in Ireland (Edwards, 1976). Brown had studied medicine first at Aberdeen and later in Edinburgh where he also attended for two sessions the Natural History Class conducted by John Walker (1731–1803) and in one of them (1792) was a fellow-student with Robert Jameson (1774–1854), eventually Walker's successor. There Brown must have learned something about the Earth and its materials, for Walker had geological interests (Scott, 1966). But it was botanical nature that captivated Brown—and had done so since boyhood.

To assist Brown, a gardener Peter Good (d. 1803), who already had some experience of the care of plants at sea, and a botanical artist Ferdinand Bauer (1760–1826), who likewise had knowledge of expedition-work, were appointed. A landscape painter joined them. He was William Westall (1781–1850), a man destined for modest fame as a watercolourist and rather less as brother-in-law to the Cambridge geologist Adam Sedgwick (1785–1873). Banks responded to the business of a mineralogist by asking William Milnes (1757–1814) of Ashover, agent for the Derbyshire mines in which he had considerable interests, to find a miner willing to join the expedition.

Milnes must have been slow for on 20 January 1801 Banks wrote again urging him to continue the search. The letter reveals what Banks then had in mind:

> The person need not be an able miner, as no trials are intended to be made below the surface.

> All mines in a new country may be seen at the surface. What is expected of the person who will be sent out is that he, under the direction of the naturalist, take specimens of all rocks, and particularly of the contents of all mineral veins he meets with, and brings them home. (*HR NSW*, **4**, p. 291).

He added that the voyage would very likely 'make the fortune of the person who engages in the mineral line' for 'none of the mountains where precious metals are most likely to lie have yet been examined'. If Derbyshire failed to provide the man he wanted he would get one from Cornwall and that 'will be severely reported hereafter'.

Although it has been claimed recently (Harris, 1974) that John Allen, the miner found for the voyage, was a native of Camborne there can be no doubt he came from Derbyshire. Banks mentions him both as 'my Derbyshire friend' (BL Add MS 32439 f 95v) and 'a Derbyshire miner' (BL Add MS 32439 f 237v), Milnes acted as Allen's agent during his absence and, finally, there is Allen's will (Sutro Lib., San Francisco. Banks Paps.) This document names his mother, Elizabeth Allen, and a brother, James, both of Ashover. Searches of the Ashover Parish Registers kindly made for us by Mr S. R. Band of Wingerworth reveal a baptismal entry dated 7 May 1775 for John son of James Allen, Park. Mr Band advises that Park signifies Overton Park, an estate Sir Joseph Banks inherited from his uncle in 1792. The Banksian connexion, Banks's references to the miner in 1801 as a young man and the one John Allen in the baptismal register for the appropriate period lead us to believe he was the man. He would have been aged 26 years, when he sailed with Flinders. We know nothing of Allen's activities before 1801 though the fact that he could write, if in a laboured hand (two letters and other Allen documents are in the collection of the Sutro Library, San Francisco), suggests education beyond that attained by most 'practical' miners at the time. If Allen kept a journal while on the *Investigator* it has not been found; we depend on the records of his colleagues to know what he did.

Banks made it clear the miner was only an assistant; Allen, and Good, were not scientific gentlemen, they were with them. Having the responsibility for directing Allen, Brown probably thought it necessary to enlarge his own geological knowledge. Edwards (1976, p. 388) mentions that Brown received instruction in that subject from a Mr Hawkins. In fact, Hawkins's *Instructions* were preserved by Brown and are now in the British Library; they are printed here for the first time (appendix). The document enables us to identify the writer as John Hawkins (1761–1841), M.A. of Trinity College, Cambridge and one of the first Englishmen to attend (in 1786 and again in 1793) the Bergakademie at Freiberg, Saxony. There he became a friend and admirer of A. G. Werner (1749–1817) the famous teacher of geognosy and exponent of neptunian concepts of earth processes. A fluent linguist, Hawkins had many links with German mineralogists; the distinguished mineral chemist M. H. Klaproth (1743–1817) dedicated the first volume of *Beiträge zur chemischen Kenntnis der Mineralkörper* (1795) to his friend Hawkins. Hawkins, in fact, was an important link in the exchange of information and ideas between British and German science. His achievement is still not widely recognized.

How Hawkins and Brown came together is unknown. Banks may have arranged a meeting (Hawkins, F.R.S. since 1791, was a correspondent of Banks), but a more likely link is Bauer. When offered his post on *Investigator*, Bauer was completing sketches begun while travelling in the eastern Mediterranean region with the Oxford botanist John Sibthorp (1758–1796) and Hawkins. As an executor of his kinsman Sibthorp's will, Hawkins actively promoted completion and publication of Sibthorp's work, not least the famous *Flora Graeca* in ten volumes (1806–1840). The surviving Hawkins–Brown correspondence (B.M. (N.H.) Bot. Libr., Brown Corr.) relates mainly to this, none of it to the *Instructions* of 1801. That is a pity for Banks seems to have suspected Hawkins of being too persuasive a teacher. Writing on 15 June 1801, Banks set his protégé straight:

> I have too good an opinion of your proficiency in the Science you have undertaken to exercise on board the Investigator to offer you any instructions relative to the mode which is best to pursue it. The Field is large, much greater than any one man can compleatly occupy. My advice to you therefore is that you attend chiefly to those branches of Natural History which you are best acquainted with & in others which may be better brought to perfection

> by Men who enterd more deeply into them, when you return, that you would content yourself with providing Specimens without troubling yourself to make any observations upon them except a carefull notation of the place where they were found with such remarks on their situation in it & on the nature of the Country thereabouts as you may think proper to write down.
> Mr. Hawkins has been so good as to give you ample instruction on the subject of Geology[,] more I fear than you will find it possible to attend to without sacrificing some of the time necessary to perfect your operations on the branches of Science which you yourself are Master of & this I should by no means ever advise you to do[.] Geology [and] Mineralogy must be considerd by you as subsidiary pursuits & you will be requird to do in them no more than is compatible with a full attention to Botany[,] Entemology[,] Ornothology &c.
> The Miner you will find an industrious & attentive young Man and you will I have no doubt find time to direct him in such a manner as will enable him to collect abundance of interesting Specimens, whenever you make any long stay in Port I should advise that after he has examin'd the Rocks & Steep Craggs where the solid Strata may be seen & collected Specimens of all that presents itself on the surface that he be employd with such assistance as can be spard to dig in the bottom of some Valley & orderd carefully to examine all such Stones or other solid bodies as he shall meet with and bring to you all that have a Metalline or other interesting appearance[.] if the water does not obstruct him he may sink a Shaft or Well the timbering of which he knows how to have constructed by the Carpenter & which may be carried about in the Ship & if by means of such a Shaft he can sink through the loose strata to the surface of the solid ones it is upon them he is likely to find fragments of Metals & other valuable bodies whose specific gravity has precipitated them to the bottom—when the Fragments of solid Strata which now cover the surface of the Earth were at some distant period of time in motion. (BL Add MS 32439 ff 41–42)

Banks could at times be muddle-headed, and this statement at least in respect of the miner and digging shafts runs counter to what he had written six months earlier, but the message for Brown was clear. Banks wanted a botanical survey and he was going to have it. He seems to have decided only one naturalist was needed for the expedition—which some (e.g. Brown, 1953) have mistakenly called the Sir Joseph Banks Expedition. Banks would have seen no fault in that. Brown made his name as a botanist by thus serving Banks. That there is material enough for the present study follows from Brown's spare-time activities and from the efforts of a remarkable commander, Matthew Flinders, who deserves to be remembered as scientist as well as navigator.

The Voyager of *Investigator*, 1801–1805

The work of the expedition will be considered in three parts or episodes. The first is the voyage from *Investigator*'s Australian landfall in December 1801 along the southern coast of the continent to Sydney, reached 9 May 1802. Two months later and joined by a tender, H.M.S. *Lady Nelson*, for inshore work, she left Sydney on a run northwards inside the Great Barrier Reef to the Torres Strait. The *Lady Nelson* proving hard to manage in open sea, Flinders ordered her return to Sydney only to find while in the Gulf of Carpentaria his own ship was badly affected by rot. He continued the survey as far as Arnhem Land but then had to abandon exploration and return to Sydney by way of Timor and the southern route. The second leg was destined to be left incomplete. Hoping to get a replacement for *Investigator*, Flinders with most of his party left Sydney for England in August 1803 on board H.M.S. *Porpoise*. The loss of *Porpoise* on Wreck Reef, off the Queensland coast, Flinders' journey in an open boat to bring rescue from Sydney and, the survivors safe on a merchantman bound for China, his own voyage home on a 25-ton colonial vessel (H.M.S. *Cumberland*) which like him was detained by the French on Mauritius for 6 years—these are now popular history. For them, and much else, we have the guidance of the commander's own account (Flinders, 1814). But *Investigator* did not rot away in Sydney harbour. Two years after being abandoned, she managed a non-stop voyage to Liverpool, bringing home Brown and Bauer who had been granted permission to continue their work until Flinders came back or such time as they were ordered to return.

For any study of the expedition the prime source is *A Voyage to Terra Australis*, Flinders' last work. According to Brown (Scott Polar Res. Inst., Cambridge. Lefroy Bequest MS 248/296/2, Brown to Franklin, 25 Aug. 1814) it 'appeared a very few days after his [Flinders's] death'; some have claimed the book was published the day Flinders died, 19 July 1814. At least he was spared knowledge that his widow would be required to make good the financial loss on publication of a book issued with the authority of the Admiralty. It was not intended to be a popular piece. John Franklin (1786–1847), Flinders's cousin and a midshipman on *Investigator*, recognized this in a letter to Brown written from Portsmouth 9 June 1815 after a tour of duty in the West Indies:

> ... the work appears to be most Interesting to men of Science and Navigators—while the casual reader will soon weary of the dry detail of his observations. He has related Facts and circumstances with the utmost accuracy—and spared even that embellishment of colouring which might make them more pleasing to the indifferent reader. His observations are reduced with the greatest nicety and precision; they, together with his charts which certainly are very superior, will I trust gain for him what he most desired, the character of a good Navigator a man of perseverance and Science— ... (Scott Polar Res. Inst., Cambridge. Lefroy Bequest MS 248/296/5)

Franklin was right. Among the dry detail of Flinders's observations are many geological notes, some no more than records of rock-types, others of far wider scientific interest. Franklin could sympathize; he too developed geological interests (Woodward, 1907) and was destined to be an ill-fated explorer.

By way of supplements to Flinders (1814), we have the manuscript diaries of Robert Brown and Peter Good (both in the Botany Library, B.M. (N.H.), as well as manuscript catalogues of rock collections and what remains of the collections themselves in the Department of Mineralogy (B.M. (N.H.)). Not only are these the oldest expedition collections of rocks in the Museum[1] (Campbell Smith, 1969, p. 247), they are the oldest extant collection from the Australian region. Their possible rivals in antiquity, the rocks gathered by Depuch and Bailly during the Baudin expedition, cannot be traced. Enquiries in Paris at the Museum d'Histoire Naturelle, where once they were housed, and at the Centre Océanographique de Bretagne at Brest have proved unavailing. The only souvenirs now are Bailly's manuscript catalogue (Mitchell Libr., Sydney. Copy in Baudin Exped. Paps., B 1265) and a brief account by Leopold von Buch (1814) of his inspection of the rocks in the Paris museum during 1810.

The Voyage to Sydney July 1801–May 1802

Calls at Madeira and the Cape of Good Hope on the way to Australia gave opportunities for Brown and his colleagues to make shore excursions. Their unsuccessful attempt to reach the highest point on Madeira, the volcanic remnant of Pico Ruivo, during which Allen nearly came to grief, was nicely observed by Good (diary, 5–6 Aug. 1801) but, for the most part, the exercises were less strenuous—and more botanical. Although these were places known to European science, Brown found the Cape, in particular, a fascinating place; he was reluctant to leave before satisfying his influential patrons. The Rt. Hon. Charles Greville (1749–1809), collector of minerals, plants and much else, for instance had instructed Brown on the eve of his departure from Spithead to remember at the Cape he was 'not in the Land promised to Kew' (BL Add MS 32439 ff 43–44) adding 'I conclude you all will have recollected many Desiderata, in which case write me word[;] tell Bauer to do so also'. In a tantalizing passage, Greville hoped all 'will be plain sailing' now that 'the awkwardness—which some Late measures might have occasiond' had been 'rubbed off'.

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[1] According to *Synopsis of the Contents of the British Museum* (8th ed., 1814, p. 54) rocks from King George's Sound (presumably collected by Vancouver) were once on public display at Montagu House. No mention of them can be found in issues of the *Synopsis* after reorganization by C. D. E. Konig (1774–1851) of the museum rock collections about 1817. The samples presumably were lost then.

The Vancouver Island material suffered similarly, and material from Dusky Bay (New Zealand).

Contact with Australia came early in December 1801 when Flinders put in at King George's Sound to prepare for the southern survey. There and for some way eastwards they were in waters examined by others. George Vancouver (1757–1798) had discovered and named the sound in 1791. His account (Vancouver, 1798, **1**, pp 49–50) is full of interest; 'two or three sorts of granite', slate, quartz, sandstone, 'marle' and 'coral' were found. He or his naturalist, Archibald Menzies (1754–1842), even tested some of them with acid and the blowpipe. But it was the 'coral' that most attracted Vancouver, as it did the party from *Investigator* and the French scientists with Baudin who visited the place in February 1803. According to Vancouver, the branching 'coral' exposed in white calcareous sand and sandstone on the tops of prominences like Bald Head was clear evidence that the land had only recently emerged from the sea. It was taken up enthusiastically by the French (Péron, 1804) and provided an example for Cuvier (1825, **1**, p. 17) in support of his model of catastrophic operations in the geological past. Darwin (1844, pp 144–148) also quoted Péron with approval.

Flinders (1814, **1**, p. 63) accepted Vancouver's interpretation that the branching material was coral, adding merely his own description. Good (diary, 20 Dec.) likewise thought it coral. Brown (diary, 20 Dec.), however, took a more critical interest. He talks of 'roots of trees petrified' and comments on the thickness and branching of the calcareous bodies. 'Can these branches be coral[?]' he asked, adding the observation that 'their being so frequently prostrate and all traces of their original structure being obliter[ated] are arguments against this'. But, Brown persisted, if wood how was it petrified, at the bottom of the sea? After closer examination failed to discover signs of woody structure, Brown left the matter; he was still dubious but prepared to call the material coral. If now we recognize that corals do not inhabit such southern waters and that the 'coral' at King George's Sound is of concretionary origin, there is nothing with which to reproach Brown. His careful intelligence gave a hopeful start to the expedition's geological work. Nearly a year later, when at Sweer's Island in the Gulf of Carpentaria, he had no trouble distinguishing concretionary pseudo-coralline material from real coral (see p. 19).

From King George's Sound, *Investigator* moved on to the Archipelago of the Recherche, anchoring in Lucky Bay, east of Esperance Bay. Flinders simply noted the place on his working charts as Bay I and this notation is followed by the diarists. Burbidge (1956) provides a key correlating the survey notation with names bestowed later. At Lucky Bay, Flinders was on new ground though the archipelago had been visited by a French expedition led by J.-A. R. Bruny D'Entrecasteaux (1739–1793) in December 1792. The naturalist J.-J. H. de Labillardière (1755–1834) noted the occurrence on the islands of the archipelago of white calcareous sand and sandstone lying over granitic rocks (Labillardière, 1800, **1**, pp 449–450). It repeated the pattern seen at King George's Sound and, as Flinders and Brown were to find as they went eastwards, characterized much of the southern coast. Flinders (1814, **1**, p. 89) thought it 'may perhaps afford some light to the geologist' and later (**1**, pp 96–97) began to wonder what sort of country ('flat, sandy plains or water'?) lay behind the remarkable cliffs of horizontal calcareous strata.

Not until *Investigator* reached Bay IX (Memory Cove, South Australia) is there much sign of rocks other than granitic types and the coastal limestone. Brown's first sample from Memory Cove he described as 'Sienites: vulgans est magnam partem terrae prope Memory Cove efformat' in his catalogue. There follow specimens of vein rocks in the so-called syenite but finally (No. 5) comes something familiar: 'Particuli sphaeroidalis ferruginose in lapide arenaceo-calcareo. frequentes praecipice in collo supra Memory Cove.' For about six weeks at this stage, Brown made all his catalogue notes in Latin. Flinders (1814, **1**, p. 140) added his remarks on the rocks at Memory Cove and it is interesting to notice how commonly his rock-names differ from those used by Brown. There are few signs of collusion. Indeed, Flinders employed a wider range of terms than Brown and, as he wrote his book more than ten years after making the observations and without the benefit of specimens one assumes his diagnoses, like Brown's, were made on the ground. Flinders clearly had a good working knowledge of lithology. Without the advantages of instruction by Walker and Hawkins, Flinders showed a surer touch in such matters than Brown. So often Brown's catalogue entries are no more than vague records of localities; that was all Banks (letter to Brown, 15 June 1801) expected.

The stop at Inlet XII (head of Spencer Gulf, South Australia) brought an opportunity to

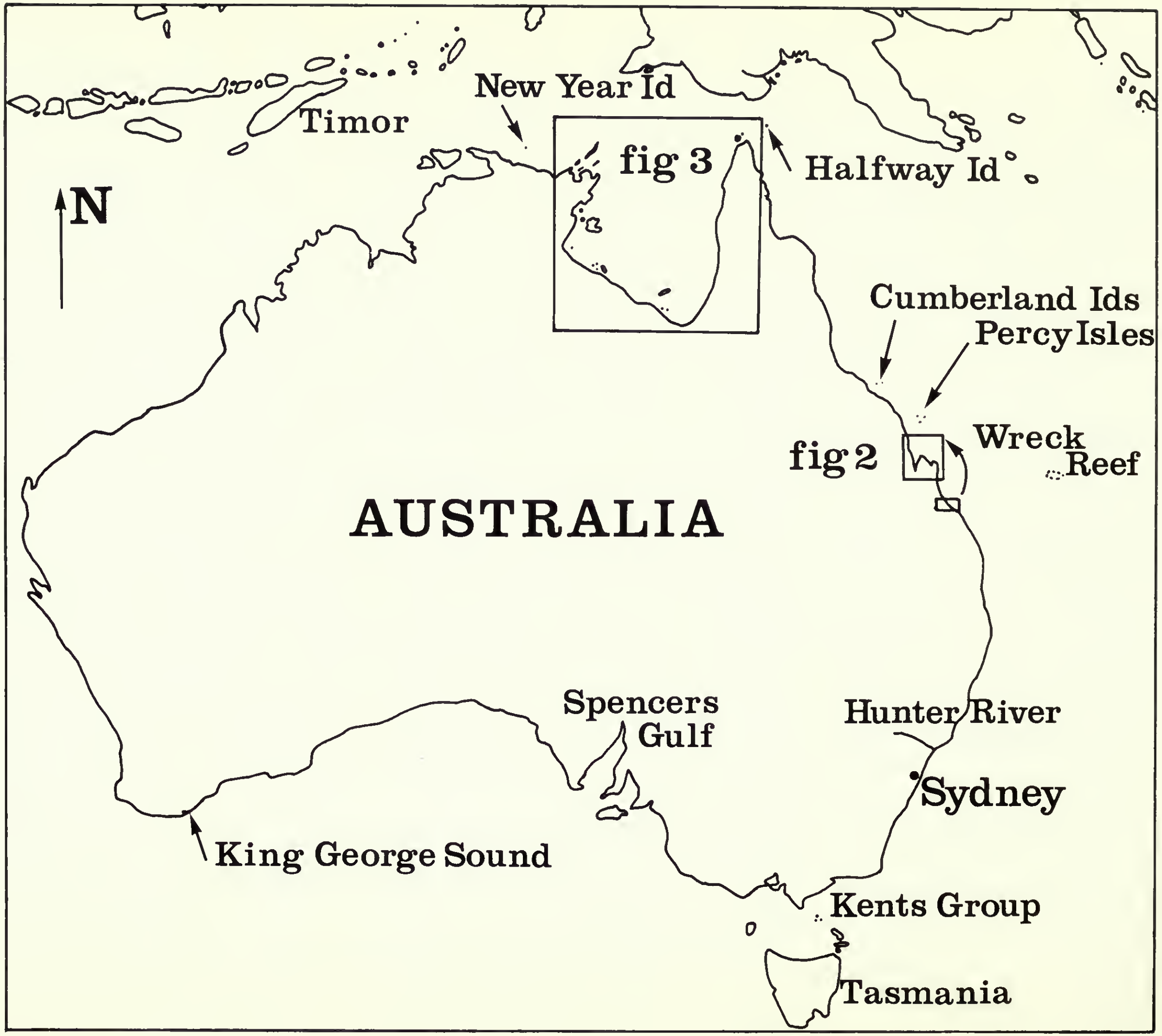
New Year Id
Timor
fig 3
Halfway Id
N
Cumberland Ids
Percy Isles
fig 2
Wreck Reef
AUSTRALIA
Spencers Gulf
Hunter River
Sydney
King George Sound
Kents Group
Tasmania

Fig. 1 The collecting localities of the *Investigator* 1801–3, and some places visited by Robert Brown in 1804.

explore away from the sea. By now the great cliffs of coastal limestone were far behind and the country more accessible. So, while Flinders continued his boat-work, Brown took his party inland. As usual, the main concern was botany but the geological situation should have provided interest; it was different from that hitherto. On this excursion the party crossed a terrain composed chiefly of slates to gain the summit of what Flinders was to call Mt Brown, the highest point reached during the survey voyages. Only two specimens of rocks, one from the mountain, were taken and that despite the fact Brown saw (diary, 10 March) veins 'of a metallic substance resembling Molybdæna or black lead'. Banks had given instructions about such things; Allen should have been directed to gather a sample, at least.

The micaceous schists of Kangaroo Island also failed to divert Brown. Two specimens sufficed for the whole island. From a fairly ambitious start (Brown listed 22 items in his collection from King George's Sound), rock-collecting had become practically an otiose activity. The three anchorages between Kangaroo Island and Sydney yielded no rocks at all. Flinders, however, continued to add geological notes to his record, perhaps also enlarging his own collection. That he did collect rocks follows from statements regarding the wreck of the *Porpoise*: 'my little collection in mineralogy and conchology was much defaced, and one half lost' (Flinders, 1814, **2**, p. 311). Later, 'a cask containing what had been saved of my specimens of mineralogy and conchology was taken on board' the *Cumberland* (Flinders, 1814, **2**, p. 329), only to be confiscated at Mauritius. The collection was never returned to him (Flinders, 1814, **2**, p. 484). We assume the references to *his* collection serve to distinguish it from that made by Brown and his assistants.

Of Brown's collection from this part of the voyage nothing remains except his manuscript catalogue (Mineralogy Library, BM (NH)) listing some 65 or 70 specimens from 11 of the 18 anchorages made. It seems probable these were lost with the *Porpoise*. With them presumably were seven samples of coal, porphyry, granite and 'argillaceous rock' from the bed of the Hawkesbury River about its confluence with the Grose River in New South Wales and another three specimens from the 'rivulet behind government house' at Parramatta, by-products of botanical excursions from Sydney while *Investigator* was being prepared for the second stage of its voyage.

Depuch and Bailly, the mineralogists attached to the Baudin expedition, did rather better during their visit to Sydney in the following year (Péron and Freycinet, 1816); it would have been surprising if they had not. Beside collecting specimens, Depuch and Bailly began the more challenging business of discovering geological relations. They saw, for instance, that a succession of shales with fossil 'ferns' lay over sandstones at Parramatta and suggested a bore-hole there would intersect at depth the coal known to lie below sandstones in coastal exposures north and south of Sydney. Nothing could have demonstrated more clearly the limits to Banksian vision. Trained mineralogists attached to a marine surveying expedition could make discoveries of importance both practical and scientific, just as Flinders and others had argued. A 'practical miner' was no answer.

Writing to Banks from Sydney 30 May 1802 (*HR NSW*, **4**, pp 776–779), Brown reported how loyally he had followed instructions: 'In mineralogy, I have hitherto collected what merely presented itself'. To his friend, Banks's librarian Jonas Dryander (1748–1810) went the message 'In mineralogy we have extremely little variety' (*HR NSW*, **4**, pp 773–775). The record of Flinders is enough to prove otherwise. At King George's Sound, Brown had tried to cover the several branches of natural history—and performed creditably. The later stops, of more limited duration, were largely given over to satisfying the interests of botany.

The Voyage to Arnhem Land and Return to Sydney July 1802–June 1803

In 1799 Flinders had gone as far north from Sydney as Moreton Bay and though he missed the entrance to the river on which the present city of Brisbane stands he did chart the coast and recognize the extinct volcanic character of the Glasshouse Mountains (Flinders, 1814, **1**, p. cxcvi). Now he proposed to examine the coast northwards from Moreton Bay, a coast fringed by the coral reef system that made it dangerous to mariners. The reef had nearly proved Captain Cook's undoing in 1770; in little more than a year Flinders was to be wrecked on it.

Work on the second leg of the expedition followed the pattern established during the voyage to Sydney. Occasionally, Brown or others of his party would accompany Flinders in the boat but more often they collected as a distinct group or as individuals. Flinders, Brown and Good continued to keep journals; for this part of the voyage they have an added importance. As before, they serve to illuminate obscurities in Brown's catalogue of rocks (or, as he called them this time, *fossils*—a word which in the general sense of things dug up was already becoming old-fashioned) but the illumination is more necessary here because part of the collection still exists. There are, in fact, two lists or catalogues of rocks relating to this part of the voyage: Brown's manuscript covering the period July 1802–April 1803 and another entitled *Minerals collected on the East Coast of New South Wales August 5–10* 1802. Both are now in the Mineralogy Library, BM (NH). Edwards (1976, p. 401) refers to this second document as 'probably in the hand of the miner, Milnes'. Miss Edwards has confused Milnes with Allen. We believe the hand is not that of John Allen and incline to a view (with which Miss Edwards disagrees) that the author was Peter Good. No specimens to match that list have been found.

Roughly half the samples noted by Brown remain in the collections of the Department of Mineralogy, BM (NH). As all derive from the second leg of the *Investigator* expedition and collectively form a unique source in the history of Australian geology, we here supply a transcript of Brown's catalogue as a guide to the geological effort at this stage. Annotations relating actual specimens to entries in the catalogue, as well as notes on the petrography of the samples, their likely collecting-localities and stratigraphical positions, are interspersed. However, before presenting this document it is necessary to offer some explanatory remarks, not least because striking differences will be found between the present statement and that given recently by one of us (DTM) in Edwards (1976, pp 399–401). Close examination of the manuscript catalogue, the original paper labels, museum register and the specimens, has brought to light considerable errors in registration, most of them due to a misreading of labels and the failure of one museum department to communicate with another, some to careless observation of the specimens. The experience provides an object lesson for curators of historic collections. The keys to the problem lie in the manner of treatment, taking treatment as a word subsuming neglect.

Leaving aside the circumstances whereby the collection reached England, matters to which we attend later in this study, it is noted that the rocks went to the British Museum at Montagu House in 1811, a gift from the Admiralty. They were not registered until 1894–5 (indeed, registration of rocks and minerals did not begin until 1837). During the intervening years, this collection like the rest of the Museum's rock collections suffered disturbance, damage and loss. Campbell Smith (1969, p. 258) refers to damage, and worse, at Montagu House in the 1820s. There was more disturbance when Montagu House was replaced by Smirke's museum building and then in 1880 came the final move from Bloomsbury to South Kensington. Brown himself raided the collection, probably near the beginning of 1826, giving to W. H. Fitton (1780–1861) pieces for his study of rocks from northern Australia (King, 1826, **2,** pp 566–629). In the preface to his book, King mentions that Fitton received the samples after other parts of the natural history contributions had been printed. The samples used by Fitton eventually passed to the museum of the Geological Society of London. In 1911 they returned to the British Museum; we say returned advisedly, for they were broken from specimens already there.

With such casual care it is wonder enough that any part of the collection remains but the business of registration was no less strange. The rocks must have come to the museum with only the paper labels. Brown did not hand over his manuscript catalogue. It passed, presumably after his death, into the possession of the Department of Botany and remained there until 1906 when it came to the Department of Mineralogy. The cataloguer in the 1890's, ignorant of this document, meanwhile had registered the rocks on the basis of what he could make of the labels. He was unaware too of the notation used by Flinders at the time of the survey. Thus an inscription like *Carpentaria Island s*, the first word indicating the section of the voyage, became in the register Carpentaria Island—a splendid geographical fiction that would unite all the scattered islands visited by Flinders in the Gulf of Carpentaria. We believe the rocks are now restored to order, 171 years after they were donated by the Admiralty.

Brown's catalogue fills 40 pages of a leather-covered notebook (11 × 18 cm) containing 30

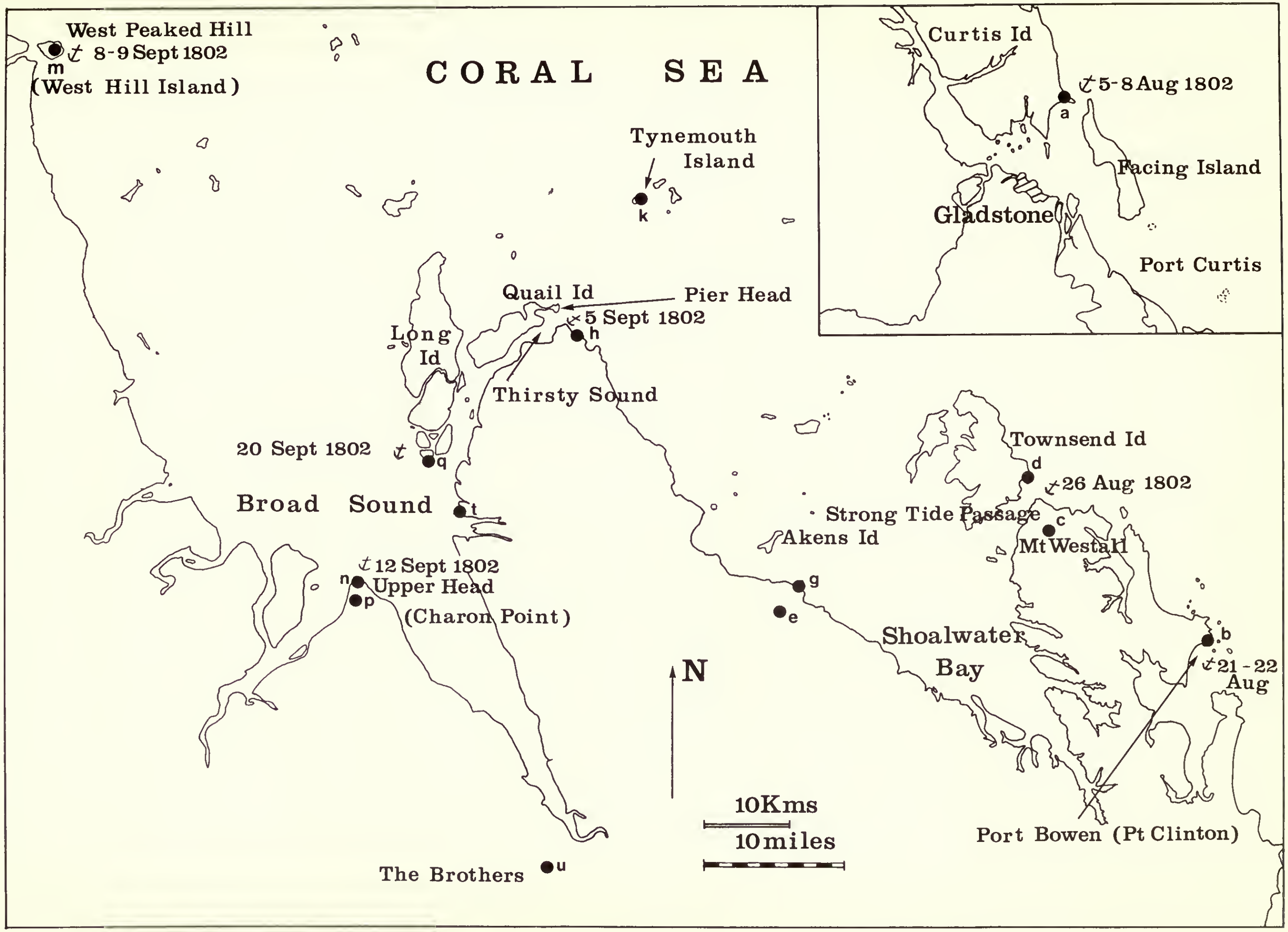
West Peaked Hill
8-9 Sept 1802
m
(West Hill Island)
CORAL SEA
Tynemouth Island
k
Curtis Id
5-8 Aug 1802
a
Facing Island
Gladstone
Port Curtis
Quail Id
Pier Head
5 Sept 1802
h
Long Id
Thirsty Sound
20 Sept 1802
q
Broad Sound
t
12 Sept 1802
n
Upper Head
p
(Charon Point)
The Brothers
u
Townsend Id
d
26 Aug 1802
Strong Tide Passage
c
Akens Id
Mt Westall
g
e
Shoalwater Bay
N
b
21 - 22 Aug
10Kms
10miles
Port Bowen (Pt Clinton)

Fig. 2 Localities of surviving rock specimens collected by members of the *Investigator* scientific party in the Shoalwater Bay–Broad Sound area of Queensland. August to September 1802.

sewn leaves; it has been transferred recently (1977) from the files of the Rock Collection to the Mineralogy Library, BM (NH). In the following text, Brown's spellings and erratic punctuation are preserved though, for the sake of economy, his spacings of lines are not. The original text is rendered in italics; our insertions stand within brackets. From time to time, Brown added minor notes to the document. They are indicated in our edition; there should be no difficulty distinguishing those added after Flinders converted his geographical symbols into normal place names from those connected with Fitton's interest.

An annotated transcript of Robert Brown's catalogue of rocks collected August 1802–April 1803

Catalogue of Fossils collected on the East Coast of New Holland [blank] space [blank] *1802, also the Gulf of Carpentaria Prince of Wales' Islands*

Sandy Cape Herveys Bay Lat:[blank] *Long:*[blank]
July 31–1802
[space left blank]

Port No I [Port Curtis] *Lat :* [blank] *Long :* [blank]
Aug^t 5–8—1802

No I Red ochre, used by the Natives for painting their bodies &c taken out of one of their Canoes
[No specimen]

No II Yellow Ochre—us'd by the Natives for painting their bodies, &c taken from one of their Canoes
[No specimen]

No III forming a small rounded hill about a mile from the beach opposite to the anchorage
[BM 75774 original label: *East Coast Port I No 3 16)* Refs: Flinders, **2**, 15 ff; Brown and Good diaries.
A fine-grained grey quartzite (a recrystallized quartz greywacke), distinctly jointed and superficially iron-stained, the sample appears to have been collected just north of the present Southend, at the SE extremity of Curtis Island (Fig. 2, position marked a). The rock may be assigned to the Palaeozoic Shoalwater Formation (Sheet SF 56-13, Rockhampton, Queensland, 1:250 000 geological series). A small specimen registered as BM 75786 (Northumberland Islands, No 2) is, in fact, a fragment broken from BM 75774; they are now together at this latter position. During the stay at Port Curtis, Brown landed only on what was then thought to be the mainland (Curtis Island); Good, and probably Allen, visited Facing Island twice. Flinders ventured further into the port and also made geological observations (Flinders, **2**, 20).]

No IV forming rocks on the shore about a mile & half from the anchorage Schistus
[No specimen]

No V Pumice Stone. found thrown on the beach, in considerable abundance that side of Facing Island next the anchorage
[No specimen]

No VI Small flat rocks in facing island—in one place only :
[No specimen]

No VII Breccia forming small rocks covered at high water in Facing Island—
[No specimen]

No VIII Calcareous sandstone about ¼ mile from the beach end of Facing Island; small rocks scatterd on the surface.
[No specimen]

Keppel Bay Aug^t 9th–16th—1802

No I Petrosilex, forming rocks on the shore opposite to the anchorage
[No specimen]

No II Petrosilex (?) with the particles of Quartz (?) on the surface, on the hill about half a mile from the beach opposite to the anchorage
[No specimen]

No III Quartz, on the surface, sides of the hill about half a mile from the beach opposite to the anchorage

[BM 75775 original label: *Keppel Bay No 3 22)* Refs: Flinders, **2**, 22 ff; Brown and Good diaries

A ferruginous chert with a vein of milky quartz, the sample was probably collected near Dinky Point of present maps. Assigned to the Palaeozoic Wandilla Formation (Sheet SF 56-13).]

No IV Rocks coverd at high water on the beach opposite to the anchorage consequently inferior to the Petrosilex (No 1)

[The sample with label (not original) *Keppel Bay No IV (No 23)* and registered as BM 75766—Quartz, Keppel Bay, E. Coast, Australia—is, in fact, a fragment broken from BM 75819 (q.v.—p. 27). *Keppel Bay No IV* cannot be found.]

Port II [Port Clinton, Port Bowen of Flinders] *Aug^t 21–22—1802*

No I Rock forming the two Mountains we ascended on 21 & 22^d ——

[BM 75816 original label: *Port 2 No 1 65)* Refs: Flinders, **2**, 36 ff; Brown and Good diaries. Registered as a quartz felsite, the material consists of phenocrysts of resorbed quartz and two feldspar phases (both much decomposed) in a matrix of devitrified welded glass shards; the rock is a rhyodacitic ignimbrite from the Peninsula Range Volcanics (Permian-Cretaceous). The locality (Fig. 2, letter b) is just north of Perforated Point (Sheet SF 56-9, Port Clinton, Queensland, 1:250 000 series).]

No II forming the rock at the second beach of the [blank] *side of the Port, where we landed the 21st*

[No specimen]

No III forming the rock at the first small beach where the ship water'd

[No specimen; for a sketch of this place see Flinders, Atlas pl XV (Sic—but in fact XVIII), sheet 2, profile No 9]

No IV In a vein about 14 feet wide forming the bottom of the Gully immediately behind the beach. Where the ship water'd. contained in No III

[No specimen]

No V Variety of No 1 or 2,

[No specimen]

Harveys Islands, between Island Head & Cape Townshend consist of the same rock as No I II, III, of Port II, in one place columnar, columns inclin'd, not jointed, seen at a distance [cf. Brown diary (25 Aug.)]

Shoal Bay Passage [Strong Tide Passage of Flinders and modern maps] *Aug^t 26—1802*

No I forming the rock at the bottom of the high mountain which we ascended

[BM 75790 original label: *Shoal Water Bay Passage Aug 26, 1802 No 1 77)* Refs: Flinders, **2**, 40 ff; Brown and Good diaries.

Registered as a quartz porphyry, the rock is a rhyolitic ignimbrite far more devitrified than BM 75816. Its similarity to rocks observed at Port II (Port Clinton) was noted by Brown in his diary; all are now placed in the Peninsula Range Volcanics (Sheet SF 56-9). The collecting locality is at the northern foot of Mt Westall (Fig. 2, letter c), *the highest* [hill] *we had been on in New Holland except one* according to Good.]

No II forming the summit of the high mountain which we ascended

[No specimen]

Cape Townshend Island Aug^t 28^th 1802

No I Micaceous schistus, with thin veins of Quartz, forming the base of the Island, as far as seen

[No specimen]

No II Differing from (No I) in being destitute of quartz [i.e. vein quartz]

[BM 75777 original label: *Cape Townshend Islands No 2 6)* Refs: Flinders, **2**, 44; Brown diary.

This grey fine-grained quartz-sericite schist, a low-grade metamorphic representative of the Shoalwater Formation, appears to have been collected at the SE corner of the island (Sheet 56-9)—Fig. 2, letter d.
The rock composing this island is very different from that of the opposite main (Brown diary 28 Aug.).]

Shoal Bay South Shore Aug^t^ 30—1802

No I In the bed of the Rivulet proceeding from the Mountains; about 2 miles from the beach
[BM 75789 original label: *Shoal Water Bay South Shore in the bed of the rivulet about 2 miles from the beach 82)* Refs: Brown and Good diaries.
Registered as a quartz porphyry, the rock is more like a quartz-bearing microdiorite porphyritic in plagioclase and containing grains of clinopyroxene infested with green amphibole. Intrusive bodies mapped as granodiorite in the Normanby Range (Sheet SF 56-9) seem a likely source. According to Brown's diary the party landed (near the present Sabina Point) and moved inland to the SW some 3 miles before reaching *a small rivulet then nearly dry in many places but at certain seasons must be {from the breadth of its bed (36 or 40 feet) the quantity & size of the water worn stones in it & the height of its alluvial banks} very considerable ... In the bed of the Rivulet we found fragments of Granite, Porphyry & Whinstone.* The locality may be identified as in Rocky Creek, about 3 miles SW of Sabina Point (Fig. 2, letter e).]

No II with the former;
[No specimen]

No III Whin Stone, water worn fragments, bed of the Rivulet, with the former—
[BM 75788 original label: *Shoal W*[ater] *Bay No 3 78)*. The sample is part of a rounded cobble of dark, fine-grained quartz greywacke containing some volcanic detritus. It was probably derived from the Shoalwater Formation (Fig. 2, letter e).]

No IV Variety of No III; same situation
[No specimen]

No V forming low rocks, coverd at high water, on the shore where we landed
[BM 75787 original label: *Shoal W. Bay No 5 79)* Refs: Brown and Good diaries.
The rock consists of abundant subhedral feldspar (mainly plagioclase) and less common resorbed quartz grains in a granular interstitial matrix; it is a dacitic crystal tuff. On Sheet SF 56-9, the area about Sabina Point (Fig. 2, letter g) has the shading for superficial Tertiary-Quaternary deposits but Brown's comments imply the rock collected was *in situ*. Perhaps volcanic materials like those known to form the Double Mountain Volcanics south of Sabina Point extend to the coast in places.]

No VI In the Bank of the Rivulet with Nos I–IV
[No specimen]

Shoal Bay Sep^r^ 3^d^ 1802

No I Top of the Peaked hill, the greater part of the hill consists of this stone, & its variety No II
[and added in pencil] *German Basalt* [Flinders, **2**, 48–49, makes it clear this Peaked hill is his Pine Mount. Brown (diary) thought the *Hill consists of a fine grain'd porphyry graduating I believe into whin stone;* Flinders (**2**, 50) termed it the *greenstone* of the German mineralogists. The specimens have not been found.]

No III Petrosilex sporadic in micaceous schistus of the same kind to that composing Cape Townshend Island, in the dry bed of a rivulet in the plain between our landing place & the bottom of the peaked hill
[No specimen]

Thirsty Sound, entrance East side—Sep^r^ 5^th^ 1802

No I Low point near the base of the round hill—opposite to the anchorage—
[BM 75797 original label: *Thirsty Sound entrance, east side No 1* Refs: Flinders, **2**, 53 ff; Brown and Good diaries.
Under the microscope this rock, registered as a pyroxene granodiorite, is seen to consist of

albite, chlorite, epidote and calcite. There is a slight schistosity and traces of a relict basaltic (?) texture suggest the material is a metamorphosed basic igneous product. The source of the rock is uncertain. Flinders and the two diarists agree that on 5 Sep. all the 'scientists' except Bauer worked on the mainland. Perhaps the sample (Fig. 2, letter h) is from a flow or intrusive body in the Devonian terrain SE of Arthur Point (Sheet SF 55-12, St Lawrence, Queensland, 1:250 000 series).]

No II superincumbent on No I

[BM 75796 original label: *Thirsty Sound No 2 98)*

Registered as a weathered sedimentary rock, this whitish material (where not iron-stained) is, in fact, a fine-grained sericite-quartz schist. The quartz occurs as grains of various shapes and sizes, some indeed is of late-growth related to veining but other grains seem to be blastophenocrysts. That being so, the original rock was probably an acid volcanic product like rhyolite or rhyolitic tuff. Such materials are reported in the Devonian succession SE of Arthur Point (Fig. 2, letter h).

No III Top of the round hill opposite to the anchorage—

[No specimen]

Pier head No IV—Porphyry, graduating in some places into trap (?) composing the round hill, call'd Pierhead on this hill the magnet was considerably affected,

[No specimen]

B Island in the offing about 3 leagues from our anchorage in the entrance of Thirsty Sound—

No V, The common rock on the shore of the Island C. Flinders

[BM 75792 original label: *Island near the entrance of Thirsty Sound No 5 91)* Ref: Flinders, **2**, 55–56.

A diorite with much-altered subhedral plagioclase, uralitized hornblende, chloritized biotite and interstitial quartz, the sample (collected by Flinders) is veined by quartz and epidote. On 6 Sep. Flinders and Westall visited what were called the 6th, 7th and 8th Northumberland Islands. Island B of Brown is the 7th island (now Tynemouth Island)—Sheet SF 56-19 where it is mapped as gabbro or diorite (Fig. 2, letter k).]

Broad Sound Sep^r 9th—1802

West Peakd Hill—[West Hill Island of Sheet SF 55-8, Mackay, Queensland, 1:250 000 series]

No I & II forming the hill & the rocks along the shore II only on the shore, the rock divided into cubes or trapeziums of different sizes, by thinish laminae of brown stone in other respects nearly the same as that composing the cube or body of the rock,

[BM 75780 original label: *Broad Sound, West peaked hill No 1 10)* Refs: Flinders, **2**, 60; Brown diary.

Termed a quartz-hornblende microgranite in the BM (NH) register, this greenish-grey rock consists principally of microscopic laths of saussuritized plagioclase mantled by clear, granular quartz; green amphibole and chlorite are also present. The rock appears to be an altered andesite or microdiorite. On the Mackay geological sheet the island (Fig. 2, letter m) is shown as composed of Tertiary volcanic material.

BM 75782 original label: *Broad Sound, West Peaked Hill No 2 11)*

The laminae of brown stone mentioned by Brown are ferruginous products, due to weathering, along joint planes. In his diary, Brown termed the rock *a species of trap?* and gave details of the variety of jointing. Flinders (**2**, 60) considered the rock *was not unlike that of Pier Head; but it had a more basaltic appearance* (Fig. 2 letter m).]

Broad Sound Low Island—[?Avoid Island] *Sep^r 10 1802*

No I Rock divided in the same manner as No II of last anchorage viz^t west Peaked hill The specimen shews the common size of the division with its walls

[No specimen]

Broad sound— Upper head— Sep^r—12 1802

No I forming the hill calld in the chart Upper head the low rocks on the shore abreast of the anchorage. where the tents were pitchd Sep^r 26—

[BM 75779 original label: *Broad Sound, Upper Head No 1 9)* Refs: Flinders, **2**, 71; Brown diary.

A microcline-rich leucogranite with both muscovite and biotite, the rock has a remarkably fresh appearance. Flinders's Upper Head appears to be Charon Point (Fig. 2, letter n) on Sheet SF 55-12, St Lawrence, where the vicinity is shown as occupied by the Lower Permian Carmila Beds. Yet Brown's note suggests granite is *in situ* there and Flinders stated that Upper Head consists of granite.]

No 2 forming small rocks by the side of a flat frequently over flow'd by the tide, near upper head, towards the nearest fresh water—

[No specimen]

No III Sep^r 15—1802 Schistus forming strata dipping more or less, by the side of a rivulet near the bottom of the first chain of hills about 3 miles from Upper head—

[No specimen remains. Brown (diary, 18 Sep.) reported that on 15 September Good and Allen walked to the nearest range of hills and the *stone which according to M^r Allen composes the hill they ascended is different from any we had hitherto seen.* Good (diary, 15 Sep.) merely observed: *The Stones of this part are various Granite Porphyry & Schistus.*]

No IV Sep^r 26—1802 Dry Bed of the rivulet near the side of the thicket about a mile from Upper head towards the shore of the smaller inlet

[No specimen]

No V Sep^r 26—1802 With No IV, both forming a considerable proportion of the stones in the bed of the rivulet

[BM 75781 original label: *Broad Sound Upper head No 5 12)* Refs: Brown and Good diaries (the appropriate entry for Brown is dated 27 Sep.—at this period his chronology is one day ahead of Good's and Flinders').

Close examination of this light-coloured rock, apparently porphyritic in two feldspars and quartz, shows it to contain volcanic rock fragments which indicate a pyroclastic origin. The felsic matrix has some layered character but is affected by a feeble metamorphism that has generated sericite and epidote. A likely source is the Lower Permian Carmila Beds which are said to be rich in acid volcanic material (Sheet SF 55-12). The collecting-locality (Fig. 2, letter p) for this rhyodacite tuff was in a tributary of the Styx River, a few miles S of Charon Point.]

Broad Sound—Inner entrance of Thirsty Sound Sep^r [blank] *1802*

No VI Sep^r [20] *Forming the greater part of the very small Island* [blank] *side of the inner entrance of thirsty Sound*

[BM 75794 original label: *Thirsty Sound inner entrance No 6 93)* Refs: Flinders, **2**, 67; Brown diary (21 Sep.); Good diary (20 Sep.). The very small island is identified as one of the Mangrove Islands (Sheet SF 55-12) at the southern end of the group known as Long Island. The sample, cream to pink in colour, is deeply weathered. An array of irregular fractures is outlined by accumulations of secondary iron-oxides. Relict textures suggest the rock was of acid volcanic origin (probably pyroclastic) though all feldspar has been replaced by clay minerals. Sheet ST 55-12 gives no clue about this sample for the area about Mangrove Islands (Fig. 2, letter q) is mapped as Quaternary alluvium. This and the next two specimens, if true to label, indicate older strata crop out in the area.]

No VII Sep^r [20] *With the former {No VI} forming small rocks on the shore*

[BM 75795 original label: *Thirsty Sound inner entrance No 7 94)*

A ferruginous material registered as an ironstone nodule, it seems more like a rounded cobble of a pisolite conglomerate with limonitic cement. Lateritic gravels are known in the vicinity (Sheet SF 55-12)—Fig. 2, letter g.]

No VIII Sep^r [20] *picked up on the inner shore of the same Island—*

[BM 75793 original label: *Inner entrance of Thirsty Sound No 8 92)*

A dark-grey banded siliceous mudstone, its rodded character suggests the rock belongs to some deformed terrain such as may be presented by the older Palaeozoic units recognized in the Thirsty Sound area (Sheet SF 55-12), e.g. on the mainland opposite. (Fig. 2, letter q).]

No IX Sep^r [21] *on a small peninsula of the main intersected by mangroves. forming rocks on the shore in some places low in other places upwards of 20 or 30 feet high. in various degrees of induration. the higher generally softer & almost wholly a deep red*
[No specimen]

No X Forming strata a few feet in thickness near the top of a bank in the peninsula with No IX
[BM 75791 original label: *Thirsty Sound inner entrance No 10 90)* Refs: Flinders, **2**, 67 ff; Brown diary (22 Sept.); Good diary (21 Sept.)
Brown thought this place *remarkable for its blood red cliffs* an island; Good calls it *the main*. According to Brown, the cliffs *we found to be compos'd of the same stone as the island on which we landed yesterday but more strongly & uniformly impregnated with iron.*
The present sample, a light-brown banded mudstone, is neither particularly like those from the last locality nor especially ferruginous; it may resemble the Lower Permian sediments mapped on Quail Island (Sheet SF 55-12). The collecting-locality was on or near Island Bluff (Fig. 2, letter t).]

Broad Sound near its head

No XI forming the hill from which C. Flinders took his bearings. The stone slightly magnetic; C. Flinders suppos'd his needle was considerably affected on this hill [and added in pencil] *Greenstone D^r Fitton*
[BM 75778 original label: *Broad Sound near its head No XI 8)* Refs: Flinders, **2**, 66; Brown diary (15 Sep.).
The sample is a hypersthene gabbro with remarkably fresh calcic plagioclase (bytownite-labradorite) and mantles of pale brown hornblende on pyroxene grains. From Flinders' map the locality is found to be The Brothers, mapped on Sheet SF 55-9 as composed of gabbro/diorite. Both Flinders and Brown called the rock a granite (Fig. 2, letter u).]

Northumberland Islands

No I Small Pine Island Sep^r 30 [Percy Isles, fig. 1.]
[BM 75785 original label: *Northumberland Isles No 1 71)* Refs: Flinders, **2**, 78ff; Brown diary (1 Oct. (= 30 Sep.)); Good diary (30 Sep.).
Although registered as a hematite-stained limestone, the rock is a volcanic agglomerate with a distinct reddish-brown band veined by calcite. It was collected on one of the two rocky Pine Islets, adjacent to No 2 Percy Island on Flinders' map; Sheet SF 56-5, Percy Isles, Queensland, 1 : 250 000 series, is not available. Passing references to the Percy Isles (*J. geol. Soc. Austr.*, **7**, 1960, pp 144 & 222) indicate a volcanic character and Palaeozoic (?Devonian) age. Flinders (**2**, 80) made geological observations on these islands; his comment that the most abundant rock was *a connected mass of different substances, held together by a hard, dark-coloured cement* may well refer to material like the present sample.]

No II found loose forming part of the rocks at the extremity of the small pine Island towards the anchorage
[The specimen registered as BM 75786 and accompanied by original label: *Northumberland Isles No 2 72)* is a small piece of quartzite which fits exactly on the side of BM 75774 from Port Curtis. The real Northumberland Isles No 2 cannot be found.]

No III forming the Projecting rock top of the ridge; abreast of the first anchorage about a mile from the beach at which we water'd
[No specimen]

No IV forming considerable rocks in & near the gully which contain'd water & at the bottom of which the ship water'd—Oct^r 1—1802
[BM 75783 original label: *Cumberland Island Oct 1 1802 No 4 68)*
Catalogue entry and original label do not agree. The Cumberland Islands were not

sighted until 15 Oct. and only three samples taken there are noted (see below). Brown corrected the error in his diary on 1 October, a day he and Good worked on board ship. The date on the label presumably relates to the day before, when Brown was on Flinders' Percy Island No 2. Our belief that the sample came from this island (in fact, from its western side) is supported by the agglomeratic character of BM 75783 (cf. BM 75785). Registered as an ignimbrite, BM 75783 is a greenish agglomerate rich in porphyritic dacite (?) fragments.]

No V forming rocks near No IV
[No specimen]

Cumberland Islands Oct^r 16—1802

Island I

No I forming the rocks on the shore near the landing place (old chart) the whin stone in greater proportion
[No specimen]

No II forming rocks near the former towards steep cliffy extremity of the Island—
[No specimen]

No III Top of the island loose fragments on the surface but the rocks consisting of the same stone
[BM 75784 original label: *Cumberland Islands No 3 70)* Fig. 1. Refs: Flinders, **2**, 94; Brown diary (16 Oct.).
A greenish-grey rock, registered as a chlorite-biotite dacite, it is more like an altered biotite-bearing quartz microdiorite, porphyritic in plagioclase. *The Island on that side we landed is compos'd of Granite &* [space] *primitive whin stone of this last the steep cliffs at the extremity of the island probably consist* (Brown diary).
As only one of the Cumberland Islands seems to have been visited, Brown's Island I must be that denoted l_2 on Flinders' working chart and later named Calder Island. This place is mapped as consisting of leucocratic alkali granite on Sheet SF 55-4, Proserpine, Queensland, 1 : 250 000 series.]

Torres' Strait Low Island d Lat [blank] *Long :* [blank]
Oct^r 30—1802

Composed of calcareous grit with small fragments of coral & shells rarely entire shells spec marked A
[BM 75798 original label: *Torres Strait Low Island 7)* Refs: Flinders, **2**, 114 ff; Brown diary (30 Oct.)
Low Island, about half a mile in circumference, at the surface compos'd of coral grit conglutinated . . . of a light ash colour sometimes containing shells (Brown diary). The sample is, indeed, a lithified calcareous grit, though it lacks the mark A. Brown's catalogue entry resolves a difficulty (Burbidge, 1956, p. 232) concerning identification of the island; Low Island d is Halfway Island of modern maps. Fig. 1.]

Prince of Wales' Islands Island e [Good's Island of Flinders, Fig. 3]

No I Composes the greater part of the hills & rocks examined with some slight variation of grain
[No specimen]

No II Weather worn specimen of No I &[?] *a small specimen of Mountain Green found encrusting wet rocks*
[No specimens. Flinders (**2**, 120) noted *streaks of verdegrease, as if the cliffs above had contained copper ore* at one place on Good's Island. Brown (diary, 2 Nov.) wrote of *a very thin drusy-covering of Green oxyde of copper on some rocks in a cave near the shore.*]

Gulf of Carpentaria [Fig. 3]

Coen River [6 November]

Calcareous sand stone

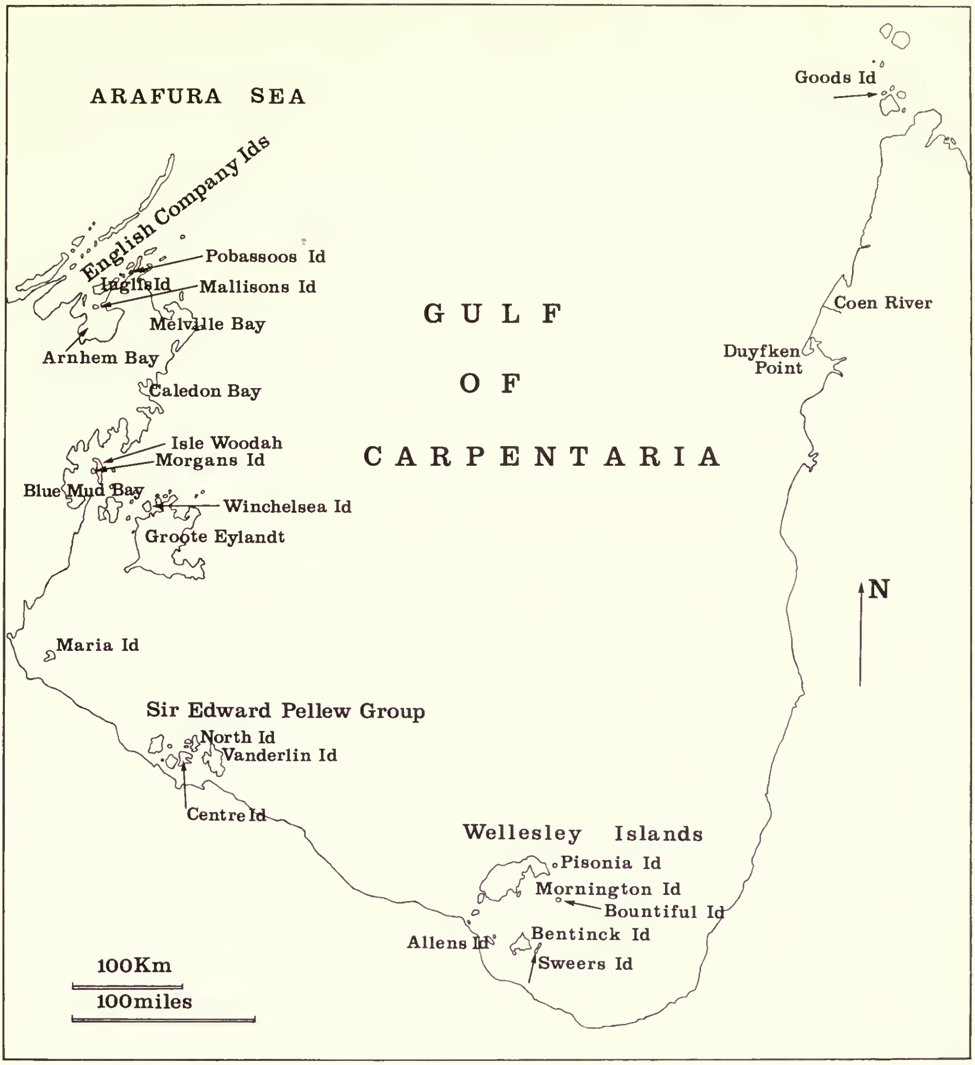
ARAFURA SEA
English Company Ids
Pobassoos Id
Inglis Id
Mallisons Id
Melville Bay
Arnhem Bay
Caledon Bay
Isle Woodah
Morgans Id
Blue Mud Bay
Winchelsea Id
Groote Eylandt
Maria Id
Sir Edward Pellew Group
North Id
Vanderlin Id
Centre Id
GULF OF CARPENTARIA
Goods Id
Coen River
Duyfken Point
N
Wellesley Islands
Pisonia Id
Mornington Id
Bountiful Id
Bentinck Id
Allens Id
Sweers Id
100Km
100miles

Fig. 3 The Gulf of Carpentaria, including some of the collecting localities. December 1802–March 1803.

Island a (Sweers' Island Flinders) [—added later] *Lat* [blank] *Long* [blank]
Nov^{r} *17 1802*

No I covering ~~thickly~~ the small hills opposite to the ship ~~rugged~~ & so thickly ~~set~~ that walking in many places was rendered extremely difficult seldom rising to more than a foot in height amorphous ragged—no distinct ramifications

[BM 75806 and 1911, 1545(1). original label—with 75806: *Carpentaria Island a No 1 41)* Refs: Flinders, **2**, 134; Brown and Good diaries.

The obscure remarks in the catalogue are clarified in Brown's diary:

The island itself is undoubtedly of very recent formation the hill abreast the ship about perhaps 50 or 60 feet above sea level was cover'd with an arenaceo-calcareous stone in such a manner as to give at first sight an idea of coral in its natural position, no traces however of organization was observable in it. The material was once a sand, of quartz, organic and lithic grains. It is cemented by calcite, especially so adjacent to open channel-ways or pipes—these, on eroded surfaces, no doubt contribute the pseudo-coralline character. The two samples have been broken from the same original specimen. Collected at the S end of the island, the material represents what is mapped as Quaternary calcarenite, shelly quartzose sand on Sheet SE 54-6, Burketown, Queensland, 1 : 250 000 series.]

No IIα Forming low shelving rocks in several parts of the Island
[No specimen]
No IIβ differs from No IIα in being softer—with α
[No specimen]
No IIγ differs in having larger water worn pebbles
[No specimen]
No III Forming a steep bank about 10 feet high near the beach abreast of the anchorage
[No specimen]
No IV Forming low rocks cover'd at high water
[No specimen]
No V scatter'd on the surface in various parts of the island
[No specimen]

Island b /Bentinck Island/ [—added later]
Nov^r 18—1802
No I forming low flat rocks containg iron stone
[BM 75808 original label: *Carpentaria Island b No 1 46)* Refs: Flinders, **2**, 136; Brown diary.
A yellowish-brown quartz sandstone probably from the Lower Cretaceous Normanton Formation, this material seems to have been encountered also on nearby Sweer's Island (Brown diary). Only *a piece of Talk(?) . . . cut apparently by a sharp instrument* provided mineral variety for Brown on Bentinck Island. Sheet SE 54-6.]
No II contained in No I
[BM 75807 original label: *Carpentaria Island b No II*
The sample is part of a ferruginous (limonitic) concretion in sandstone, presumably of the Normanton Formation.]
No III a considerable distance from the beach. loose on the surface of various sizes
[BM 75810 and BM 1911, 1545(3) original label (with 75810): *Carpentaria Island b No 3 48)*
Registered as an ironstone, the sample appears to be a lateritized sand crudely pisolitic in character. It is probably from a fossil soil on the Cretaceous sandstone.]
No IV Low flat rocks on the shore
[No specimen]
No V near No IV forming similar rocks on the surface
[No specimen]
No VI forming low flat rocks on the shore
[No specimen]

Island c (Allen's Island) [—added later]
composition the same as a̲ and b̲

Island f = /Turtle Island/(Bountiful Islands) [—added later]
Dec^r:—[3–4] *1802*
No I On the beach in blocks—
[No specimen]
No II In large blocks on the shore
[No specimen]

Island e = /Pisonia Isle/ [—added later]
Dec^r: [6] *1802*
Compos'd of calcareous breccia & fine pudding stone

Island h (North [/] ~~*Vanderlins Island*~~ [—added later]
Lat : [blank] *Long :* [blank]
Decr :16–25—1802

No I Composes the Island with some slight variation of grain & hardness. forming in several parts of the shore abrupt but not very high cliffs, full [of] *wide cracks & here & there containing small caverns*
[No specimen]

No II On the shore west side of the Island near the place where the mangroves are cut down
[BM 1911, 1545(2) label: *Carpentaria North Island No 2 Island h* Refs: Flinders, **2**, 166; Brown diary (20 Dec. but, in fact, 19 Dec.).
A pisolitic ironstone or laterite. In the diary, Brown noted nothing geological apart from the fact that sandstones occupied the middle of the island. Sheet SD 53-16, Pellew, Northern Territory, 1 : 250 000 series, is not available. This specimen is one of a group Brown gave W. H. Fitton about 1826; it is strange that no duplicate was preserved, and that Brown failed to record the occurrence of ironstone on North Island, one of the Sir Edward Pellew Group.]

No III Beach abreast of the anchorage, small rocks
[No specimen]

Island h4 Decr 21—1802 [off Centre Island?]
Compos'd of Sand Stone in some places schistose as in specimens marked B—
[No specimens]

No II Small Rocks on the shore
[BM 1911, 1545(4) label: *Carpentaria Island h-4 Decr 21st 1802* Ref: Brown diary (for 20 Dec.)
The sample is a porous coralline limestone with some small sparry patches. The data are puzzling; Island h4 has not been found on Flinders' chart. On 21 December Brown remained aboard the *Investigator* and Good that day accompanied Flinders to Craggy Island (Good diary, 21 Dec.; Flinders, **2**, 167) but says nothing about rocks. At this period, Brown again had trouble keeping time. If he collected this sample it must have been on 20 December. He landed then for an hour on a small island off the eastern coast of Centre Island. From that inspection Brown adjudged the island to consist of sandstone. The present sample may be from the remains of an old fringing reef.]

Island g (Vanderlin Island) [—added later]
3 hummock part where we landed on the 14th Decr is compos'd of sandstone but where we landed & apparently in other ~~places~~ parts of the shore there are very large blocks some of them loose on the surface of Calcareous grit
Other parts of the Island after wards examin'd on Decr 19 & 25 exactly similar to Island h
That is compos'd of SandStone with here & there on the shores fragments of Iron Stone
[Between 21 and 25 December, Brown made no daily entries in his diary but his note of a visit to Island g (Vanderlin Island) on 25 December agrees with Good's account. Of the place Brown added:
The stone is the same precisely as that of Island h (North Island).

Island l (CapeMaria) [—added later, but now known as Maria Island]
Jany 1—1803
Island principally compos'd of Sand Stone—
No I Petrosilex? containing minute crystals found loose on the shore in flat pieces about 200 Lb : not frequent
[BM 75812 and 1911, 1545(6) original label (with 75812): *Carpentaria Island L 54)* Refs: Flinders, **2**, 179; Brown diary (1 Jan.).
The specimens are from a plate of cream-coloured chert with irregular cavities lined with small crystals of quartz. Sheet SD 53-11/12, Roper River/Cape Beatrice, Northern Territory, 1 : 250 000 series, reports the presence of cherts in the Yalco and Lynott Formations

of Proterozoic age; both formations appear on the island near the landing place, some 2 miles W of the SE corner of Maria Island. The two pieces fit together exactly but do not complete the original; a third part is missing.]

No II in the bed of a small rivulet near the landing place

[No specimen]

No III In slate like loose fragments 2 or 3 feet diameter, a few inches thick, on the beach

[No specimen]

No IV with N° III in pieces nearly the same size

[BM 75809 and 75811 original label (with 75809): *Carpentaria Island l No 4 47)*
The material is a deeply-leached platy siltstone or slate, almost white and marked by dendritic growths of vernadite (hydrous manganese oxide) and joint-fillings of the same black material. The original sample must have been broken and the parts separated before registration of the collection. At that time one of the labels was mis-read and another locality then assigned to part (75809) of the sample.]

Main land opposite Groote Eyland

arenaceo-calcareous [rocks] *on the shore*

Cavern Island (Chasm Island) [—added later]

Sand stone vid Groote Eyland

Cavern Island l ~~*(Winchelsea Island)*~~ [—added later]

[If a specimen was taken it is not preserved]

Groote Eyland Jan^y 15—1803

No I Common appearance of the Sand stone of which this part of the Island consists

[BM 1911, 1545(5) label: *Carpentaria Groote Eylandt No 1 8)* Refs: Flinders, **2**, 190; Brown diary (15 Jan.).
A fine-grained reddish quartz sandstone, collected just N of North West Bay, Groote Eylandt, opposite Finch Island (Sheet SD 53-7/8, Blue Mud Bay/Port Langdon, Northern Territory, 1 : 250 000 series). This and the following come from the Proterozoic Groote Eylandt Beds.]

No 2 Sandstone with numerous angular fragments small pebbles of quartz not uncommon in large blocks on the top of the bluff head near which the boat landed

[BM 75805 and 1911, 1545(5a) original label (with 75805): *Groote Eylandt No 2 Jan^y 15 1803 39)*
The material is a pink quartzite formed from a quartz-rich gritstone with sporadic pebbles by deposition of secondary silica.]

Island p (Winchelsea Island) [—added later]

Jan^y 16 1803

No I Sand stone which composes the island as far as seen, similar to that of Groote Eyland

[BM 75817 original label: *Carpentaria Island p N° 1 Jan^y 16—1803* Refs: Flinders, **2**, 190; Brown and Good diaries (16 Jan.).
Good, Allen and Bauer went ashore this day; Brown remained on board. The sample is a quartzite derived from a coarse quartz sandstone; quartz overgrowths on sand grains in many places have enlarged to replace all matrix. Good remarked that *the Rock here is chiefly freestone of different degrees of hardness.* Such variations result from the extent to which silicification has proceeded in the Groote Eylandt Beds here.]

Island ql (Bustard Island) [—added later]

[Brown landed on the island (18 January) and saw it was composed of sandstone (diary).]

Island r (Burneys Island) [—added later]

[Visited by Brown on 19 January; the island *compos'd of sandstone in the middle* (diary).]

Island s (~~Woodah~~ Morgans Island) [—added later]

No I Argillaceous stone composing the island sometimes rudely columnar breaking in large cubical fragments containing veins of quartz

[BM 75814 original label: *Carpentaria Island s Jan^y 1803 No I Var 2 62)* Refs: Flinders, **2**, 198–199; Brown diary (21 Jan.).

Rocks compos'd of argillaceous stone resembling basalt in some cases somewhat columnar in all splitting into cubical or rhombic fragments. Thin veines of quartz & these but rare in some places the rock in them nearly perpendicular strata (Brown). Most of Brown's (and Good's) record of the day deals with Westall's and Allen's encounters with natives and the spearing of the Master's mate, etc.

The mid-brown coloured sample is a feebly-metamorphosed mudstone; it has a cleavage and this with distinct cross and diagonal joint systems determines the shapes of fragments observed by Brown. The island was approached from the east and the first rocks to be encountered would belong to the Lower Proterozoic Grindall Metamorphics (Sheet SD 53-7/8). This sample may be from that source or perhaps more likely from the Groote Eylandt Beds that lie beneath most of the island.]

No 2 Specimen of No 1 with quartz veins, not uncommon

[No specimen]

No 3 forming rocks in a gully towards the North side of the Island

[BM 1911, 1545(7) label: *Carpentaria Morgans Island No 3 Island S*

In addition to the argillaceous rocks, Flinders (**2**, 199) noted sandstones *with a mixture in some places of iron ore, but more frequently of quartz* on Morgans Island. The two pieces bearing the above number are purplish-brown clastic rocks from the Groote Eylandt Beds; the smaller piece is of a quartz sandstone with an iron-stained argillaceous cement, the other is similar but coarser—more like a gritstone.]

No 4 Top of the Island, forming pretty large flat masses loose on the surface

[BM 75813 and 1911, 1545(9) original label (with 75813): *Carpentaria Island S Jany 21 1803 No 4*

The two samples are not from the same specimen though both are gritstones or fine conglomerates with small well-rounded quartz pebbles in a sandy/argillaceous matrix. Both show bedding features to which the platiness is related; they are from the Groote Eylandt Beds.]

No 5 Sandstone on top of the Island in thin strata

[BM 1911, 1545(8) label: *Carpentaria Morgan's Island No 5 Island S*

A reddish-brown and even-grained quartz sandstone, somewhat friable, it is derived from the Groote Eylandt Beds.]

Point T of the Main
Jan^y 26 (Cape Shield) [—added later]
Point S of the main Point Blane [—added later]
Jan^y 28th 1803

No I forming low rocks on the shore no other kind of stone (varities of this excepted) seen on this point

[No specimen]

Round Head [Round Hill Island, Blue Mud Bay]

Arnheim South Bay Caledon Bay [—added later]

No I Grey Granite of which a few blocks just above the surface seen not far from the tents of the North East side of the bay

[No Specimen]

Point U_1 (Mount Caledon) [—added later]

grey granite similar to No 1 composes the hills of this point

[BM 75815 original label: 63) *Composing the Hills of Point U_1 Feby 6—1803* Refs: Flinders, **2**, 207 ff; Brown diary (5 Feb.).

The specimen is a medium-grained biotite-muscovite-hornblende adamellite, light grey in colour and moderately fresh despite chloritization of the biotite. Graphic intergrowths of quartz and alkali feldspar are typical. The material represents the Lower Proterozoic Caledon Granite (Sheet SD 53-3/4, Arnhem Bay/Gove, Northern Territory, 1:250 000 series).]

Island V_1 *off Cape Arnheim*

Composd of Grey granite grain coarse, I observed no veins of quartz or of sienite but one remarkable vein of a finer granite about 2½ or 3 inches thick—in one place—

[No specimen; Brown's remark about the island being off Cape Arnhem is incorrect. Island V_1 is the present Dudley Island (visited 10 Feb.), in front of Caledon Bay.]

Arnheim North Bay [Melville Bay of Flinders and modern maps.]

No I small graind greyish granite with thin quartz veins on the hill nearest the ship (Point Dundas) [—added later]

[No specimen]

No II Coarse-graind grey Granite composing the greater part of the hills examind & the blocks exposd in the neighbourhood of the anchorage, of this there are also larger pieces not packed in paper

[BM 75820 original label: *Arnham North Bay No 2 Feby 14 1803 89)* Refs: Flinders, **2**, 224–5; Brown diary (13–14 Feb.)

A rather weathered granodiorite with large (to c. 25 mm) subrounded ocelli of feldspar surrounded by darker patches or trails of biotite and some pink garnet, the rock matches the Bradshaw Granite (? Archaean) mapped on Sheet SD 53-3/4. This specimen was probably taken in the vicinity of Drimmie Head.]

No III Oxyd of Manganese? Small island in North Arnheim Bay. large specimens of this unpack'd (Melville Island) [—added later]

[BM 75818 no original label (but that with 75819 may belong) Refs: Flinders, **2**, 224; Brown diary (16 Feb.)

This colloform mass of pyrolusite (Plate 1, *Top*), one side smooth and containing admixed goethite, the others rough as broken from a larger body or outcrop, is of especial interest in view of recent commercial exploitation of manganese in the region. On 16 February, Brown (diary) accompanied Flinders *on a boat excursion to the more distant parts of the bay* [Melville Bay]. *Small island landed on contains much manganese?* Flinders, that day, reported visiting an isthmus, some 3 miles E of Drimmie Head, where mangroves grew *on rocks of strongly impregnated iron stone.* Isthmus may have been island (though certainly *not* Melville Island) and iron stone a manganese oxide but, in any case, it is strange that Brown did not appear to divulge his opinion about the manganese.

Later, Flinders (**2**, 245) came to think a zone of ironstone extended across the whole NE corner of Arnhem Land and including this deposit in Melville Bay.

In Brown's Catalogue, No III (above) completes the list of samples from Melville Bay. There is, however, another specimen in the BM(NH) collection taken during the visit of *Investigator:*

BM 75819 original label: *Arnham North Bay Island* [blank] *88) Feb 16—1803*

Refs: Good diary (14 Feb.); Brown diary (16 Feb.)

The specimen consists of a group of broken, clear to slightly milky quartz crystals with some weathered granite or cemented sand and iron oxide attached. Brown mentions *perfect crystalls of quartz* in the same passage as the manganese oxide just listed but as the quartz is not in his catalogue we think the present sample may not be his. Good (14 Feb.), in fact, disclosed that Flinders, Bauer and Westall found quartz crystals *in Caverns* [?cavities] *in Ironstone & Granite.* If the sample was collected then, the original label here may really belong to 75818, which was collected by Brown on the day stated. Despite that uncertainty, there is no doubt the crystals were collected at Melville Bay; the matrix, in fact, makes that clear. A piece of quartz, registered as BM 75776 and

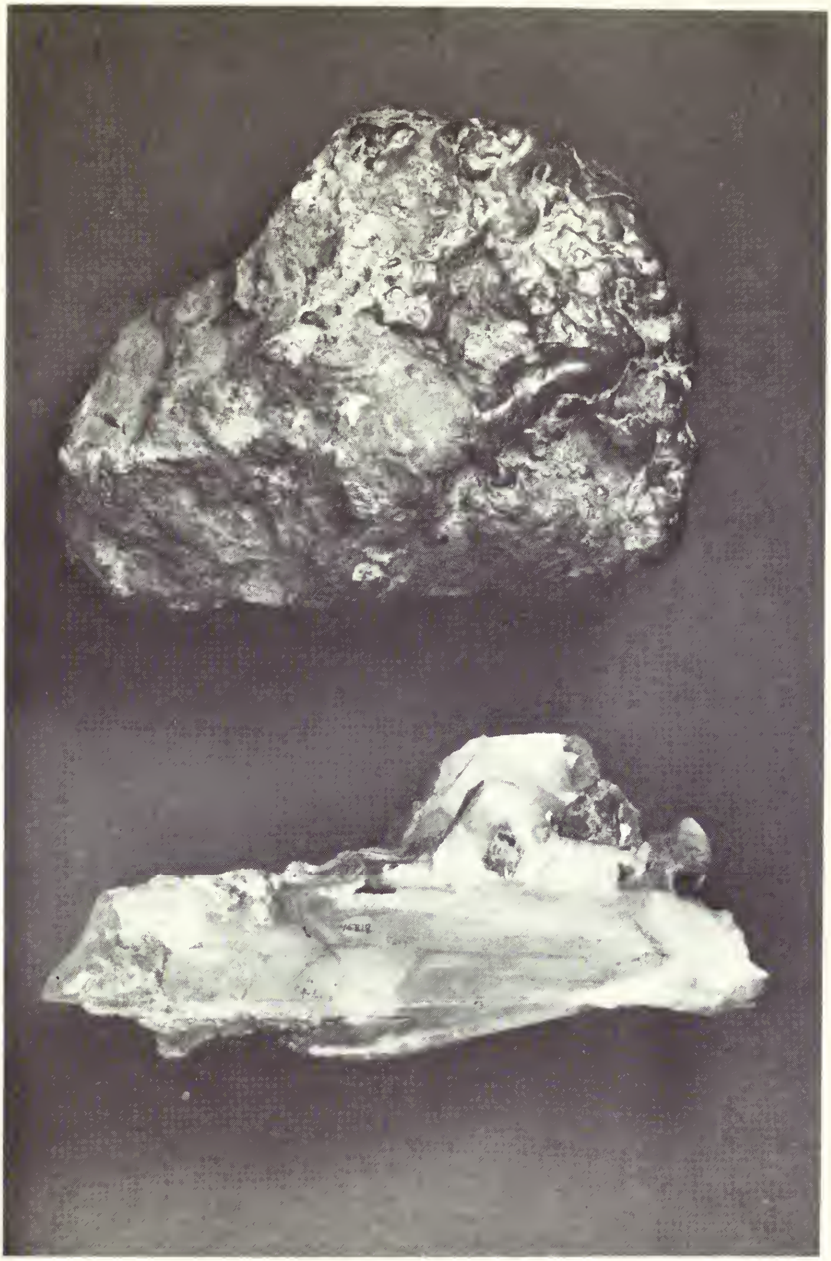

Plate 1 *Top*: A colloform mass of pyrolusite and goethite collected from an island in Melville Bay, Gulf of Carpentaria, during the *Investigator* voyage. BM 75818. *Bottom*: Quartz, from Melville Bay, Arnhem Land. Part of this specimen was illustrated in Edwards (1976). BM 75819. The specimens are about two-thirds natural size.

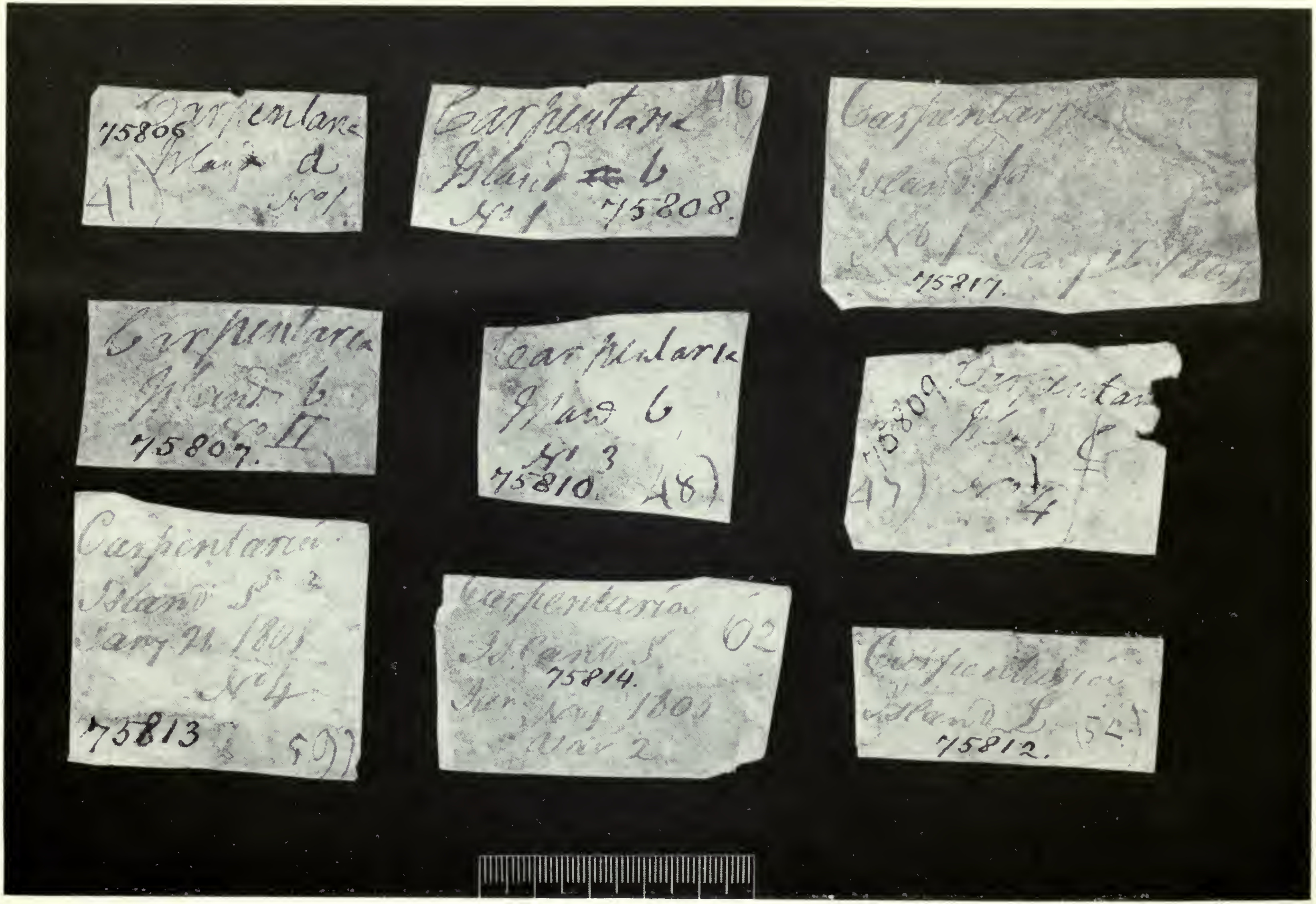
75806 Carpentaria Island a No 1 41
Carpentaria Island b No 1 75808 46
Carpentaria Island No 1 75217
Carpentaria Island b No II 75807
Carpentaria Island 6 No 3 75810 48
75809 Carpentaria Island No 4 47
Carpentaria Island Jany 11 1803 No 4 75813 59
Carpentaria Island 75814 1803 02
Carpentaria Island 75812 52

Plate 2 Some original labels associated with specimens from the Gulf of Carpentaria leg of the *Investigator* voyage which suggested that the specimens were from 'Carpentaria Island'. The true provenance of these specimens is discussed in the text. The five figure numbers are additions given by the British Museum (Natural History) in the 1800's when the collection was registered.

assigned to a locality at Keppel Bay, (p. 13) fits a broken end of BM 75819 (illustrated in Edwards, 1976, Pl. 4); the two pieces are now united (Plate 1 *Bottom*).]

North Coast

Island y_2 */Pobassos' Island/* [—added later]

Feb^y 18—1803

No I Sand Stone composing the greater part of the Island

[BM 75804 original label: *North Coast Island y.2* Feb^y *18—1803 No I 34)* Refs: Flinders, **2**, 235; Brown and Good diaries.

Good described the island as *very hilly & full of Stones, which are grit stone & in Some places a kind of Slate stone.* Brown saw it as composed *of an argillaceous stone.* The sample is an even- and fine-grained grey quartz sandstone or rather, from the extent of secondary silicification, a quartzite. We note that the Upper Proterozoic Wigram Formation, containing massive grey fine sandstones (Sheet SC 53-15/16, Wessel Islands/Truant Island, Northern Territory, 1:250 000 series), occupies that part of the island facing *Investigator's* anchorage. The description is appropriate to this specimen.]

No Iβ softer variety of the former

[No specimen]

No II In a gully about half a mile from the anchorage

[BM 75802 original label: *North Coast Island y.2 Feby 18-1803 No 2 32)*

The sample is of an olive-green siltstone, distinctly jointed across and along bedding planes. The rock appears to come from the Pobasso Formation (Upper Proterozoic).]

No III in flat blocks left dry at low water, abreast of the ship granite dark grey, fine grain'd

[BM 75803 and 1911, 1545(11) original label (with 75803): *North Coast Island y. 2 Feb^y 18, 1803 No 3 33)*

None of our observers (Flinders, Brown and Good) saw fit to comment on this rock, a quartz dolerite from the sill of Proterozoic age that crops out along the E shore of Pobasso Island. Under the microscope this fresh rock displays interstitial graphic intergrowths of quartz and alkali feldspar; brown hornblende and biotite occur in addition to abundant pyroxenes.]

Island y1 (Cottons Island) [—added later]

Feb^y 20—1803

No I forming the upper part of the cliff which we ascended on the 20th

[No specimen]

No II forming the greater part of the island = {white sandstone}

[No specimen; Cotton Island consists of the same geological units as Pobasso Island. The place deserves remembrance as the subject of one of Flinders' rare light touches (**2**, 235–236).]

Island y_3 *(Astells Island)* [—added later]

Feb^y 21—1803

No I Sand stone comprising the rocks on the island

[No specimen; Sheet SC 53-15/16 indicates the island as consisting largely of the Astell Sandstone, the unit next above the Pobasso Formation in the Upper Proterozoic succession of the region.]

Island ~~y~~ z (Inglis Island) [—added later]

No I In flat beds on the shore

[BM 75801 original label: *North Coast Island* [blank] *Feb^y 24, 1803 No I 30)* Refs: Flinders, **2**, 237; Brown diary (24 Feb.)

The specimen is a dark grey argillaceous rock with a marked parallel fracture, probably a bedding cleavage rather than slaty cleavage. It seems to be more consistent with some members of the Wigram Formation but the cove at the northern end of the island where Brown landed is beset by the stratigraphically-higher Pobasso Formation (Sheet SC 53-15/16).]

No II Small block loose on the surface on the hills near the shore
[No specimen]

Bosanquet's Island Stone like that of Inglis Island [—line added later]

Island α March 1 1803 (Mallison's Island) [—added later]

No I Comprising the upper part of the perpendicular cliffs & tops of the hills, occasionally as in this specimen marked with Copper /?/ ore
[BM 75800 original label: *North Coast Island α Mar 1 1803 No Iα 28)* Refs: Flinders, **2**, 241; Brown diary (1 Mar.) A quartz sandstone, generally pink but passing to grey next to joint surfaces coated with iridescent, botryoidal goethite. The latter must be what Brown took to be copper ore. The sample is from the Upper (?) Proterozoic Mallison Sandstone (Sheet SD 53-3/4).]

No Iβ variety of the former
[No specimen]

No II forming the lower part of the perpendicular cliffs
[BM 75799 original label: *25) North Coast Island α No 2 Mar. 1 1803*
A dark grey laminated mudstone, affected by some diagenetic or low-grade metamorphic recrystallization of micas and formation of poikiloblastic spots, the sample comes from the Lower(?) Proterozoic Wilberforce Beds forming cliffs along the S shore of Mallison Island. Flinders (**2**, 241), noting the black cliffs as he approached the island, thought he would find coal there.]

No III In loose blocks at the bottom perpendicular cliffs
[No specimen]

No IV with the former, a variety of No I
[No specimen]

Point y2 of the main (South side Cape Newbald) [—added later]
March 3^{d} 1803
composd of similar stones took the following [blank]

Island α1 ~~Cape~~ Red Cliffs [—added later] *March 4*

No I at one end of the red cliff No II
[No specimen]

No II forming red cliffs moderately high in many places much softer
[No specimen; Brown (diary, 4 March) noted the red cliffs on the mainland (opposite Cape Newbald) to *consist of siliceous sand or ochre*. On Sheet SD 53-3/4 the area is mapped as covered by Cainozoic laterites, etc.]

New Years Island North Coast March [12] *1803*

Coral but little changd composing the Island, at least no other stone seen on the surface—Mr Good
[No specimen, if one was collected. Good (diary, 12 March) reported: *The whole Island is composed of Coral & sand & shells and some lakes of Salt water with mangroves*. See also Flinders, **2**, 249.]

Island of Timor Coopang Bay
April 1—7th 1803

No I found loose in the bank of the Rivulet a little above the town—of Coopang
[No specimen]

No II Rocks in the bed of the River a little above the town of Coopang
[No specimen]

No III near the River one piece only seen marmor—
[No specimen]

No IV Calcareous Rock composing the hills above Coopang the cliffs on the shore The rock on which the fort is built containing shells not uncommonly

[BM 75821 and 1911, 1545 (10) original label (with 75821): *Timor No 4 (3;* label with 1911, 1545 (10): *Carpentaria Round Head*

The disparate labels relate to two pieces that fit together exactly (now reunited) leaving, as has been noted in a few other cases, clear evidence of a third part still missing. Round Head, mentioned in Brown's catalogue (p. 23) but not by Flinders, must be Round Hill Island in Blue Mud Bay on the eastern shore of Arnhem Land. Fitton (King, 1826, **2**, 611) offers remarks on Round Head but these seem to combine a published report concerning the nearby Cape Grindall (Flinders, **2**, 202) with an observation on the present specimen. Fitton terms this rock *a calcareous, probably concretionary stone, enclosing the remains of shells, with cavities lined with crystals of calcareous spar*. However, we can find no evidence anyone from *Investigator* actually landed on Round Hill Island and conclude that Fitton was misinformed by Brown. If one of the labels is appropriate, it is the one indicating this heterogeneous limestone, in part compact, in part cavernous and sparry, was collected at Koepang, Timor.]

The catalogue shows how faithfully Brown and his party followed Banks's directions. Their geological work rarely passed the level of collecting. Access to the specimens, however, enables us to grasp the scale of collecting in terms of lithological variety. For the first leg that was not possible as Brown's catalogues, by themselves, are not especially informative. Often he listed no more than a number and a locality (and a vague locality at that). General localities may serve a botanical collector; they are less helpful to the geologist. With the specimens and modern geological maps it has been possible to recognize not only the situations from which the samples were taken but to discover that Brown's collection is reasonably representative of the rocks he and his party would have encountered. Within the limits set for their work, the achievement is creditable.

It is also possible to glimpse, from the records of the second leg of the voyage, something concerning the efforts of John Allen and Peter Good in regard to geology. If Allen remains in the shadows the activities of 15 September 1802 indicate his ability to reach independent conclusions in the identification of rocks. That Flinders attached Allen's name to an island on his map of the Gulf of Carpentaria must be a sign that the miner had proved himself useful. Good's contribution is much easier to recognize. His diary is a model of careful record, stocked with notes about rocks as well as plants. On many occasions he worked away from Brown, by himself, or with Allen, or one of the artists. Good emerges as a competent naturalist in his own right. He was far more than a gardener and Brown's botanical assistant; his death on 12 June 1803 just after *Investigator* returned to Sydney must have been a severe blow to the scientific effort.

Before leaving the second stage of the voyage, it is necessary to consider Flinders and his geological work. We have no idea what specimens he collected, apart from the few pieces given to Brown, but Flinders's text betrays his interest. Geology was to be a source of intellectual diversion during his years of imprisonment on Mauritius. Beset with the problems of navigating and charting dangerous waters, Flinders had even less opportunity than Brown to discover significant stratigraphical relations along the Australian coast yet in two broadly geological fields he made observations that were to attract wide attention. They were the nature of coral reefs and terrestrial magnetism, perhaps obvious interests for a navigator with a scientific bent. His magnetic observations, compiled in his captivity, found a place in the *Philosophical Transactions of the Royal Society* (1805, **95**: 186–197) and were the first scientific fruits of the expedition to be published. Though never elected to fellowship in the society, Flinders won a favourable reputation among scientists. For the last few years of his life, he enjoyed a place in the Wernerian Natural History Society in Edinburgh, a body presided over by Brown's friend Robert Jameson. The connection for Flinders must have been a little incongruous; his belief in the efficiency of subterranean heat as a cause of geological action was hardly Wernerian (Vallance, 1975, p. 23).

Flinders's study of the Australian coral reef system began in about latitude 20° S and culminated with observations of the fringing reefs at Halfway Island in what he termed the Corallian (now, Coral) Sea and the reefs along Pandora Passage leading into Torres Strait (Flinders, **2**, pp 87–89, 114–116, 336). He was particularly interested in the morphology of the reefs and the manner in which the banks accumulated. There is something in Flinders of the 'instinctive' model espoused by J. R. Forster (1729–1798), naturalist to Cook's second voyage round the world, after examining some of the low islands of the Pacific Ocean. Flinders had no greater appreciation than Forster (1778) of the zoological aspects of coral growth; both seem to have thought the organisms simply fulfilled their destiny by constructing ramparts. Emergence of the reefs followed that inexorable growth, modified from time to time as the sea attacked the structure and redistributed calcareous rubble. It was a remarkably non-catastrophic view. Jameson (in Cuvier, 1822, pp 325–328) quoted extensively from Flinders in his notes on coral islands. Others also cited him and though twenty years later Flinders's ideas were set aside, Darwin (1842) still relied on his charts and descriptions. The work of Flinders gave a starting-point for the geological investigations of J. B. Jukes (1811–1869) on the Great Barrier Reef of Australia during the voyage of H.M.S. *Fly* (Jukes, 1847). On the *Investigator*, it had been a job for the commander. Flinders's little known communication of January 1807 to the *Société d'Émulation* on Mauritius (Flinders, 1810) includes general notes on the Australian reefs as well as a particular record of his experience of Wreck Reef.

The Stay in Australia June 1803–May 1805

When the ramshackle *Investigator* reached Sydney and Flinders had announced his intention to seek another vessel in England to complete the survey, Brown sought permission to remain and extend his work while the commander was absent. Applying to Flinders by letter dated 13 July 1803 (BL Add MS 32439 ff 98–99) on his own and Bauer's behalf, Brown explained how much more usefully they could be employed in the colony. A postscript to the letter requested similar permission for Allen. Brown pointed out that Allen 'might . . . be usefully employ'd especially in the more remote & mountainous districts of the Colony & that he would be a valuable assistant to me in my excursions'. Permission came four days later but Allen soon changed his mind.

> Mr. Allen who was at first inclin'd to remain & was therefore included in my letter has since, from a well founded apprehension of incurring great expence, requested to go home & as the department to which he belongs has hitherto afforded us so little I think he has judg'd very wisely—[so Brown told Banks in his letter of 6 August 1803]—(BL Add MS 32439 ff 104–108).

Despite his request to stay, Brown went on in the letter to express disappointment with the voyage: 'Mineralogy has been uniformly a barren field & even Botany has fallen short of my expectations'. He wrote to Greville the same day in like vein (BL Add MS 32439 ff 117–119/121–124). With conscious or accidental ambiguity, Brown told Greville 'Mr. Westall with whom professionally I have nothing to do & Mr. Allen the Miner who is really of very little use go home on the Porpoise'. He explained that 'Botany I have all along made my chief study & in consequence of our very short stay at many of our anchorages the other departments were sometimes in a great measure overlook'd'. Greville was also told Flinders did not rate Brown's collections highly enough, that he had failed to provide proper boxes, and so forth. It would be intriguing to know if Flinders was not at times irritated by Brown's narrow devotion. But to return to the letter, having complained about the dullness of Australian minerals (rocks), Brown finished by remarking that a number of the books he wanted had not arrived. Among the titles was 'Hauys Systematic work on Mineralogy', one soon to be unexpectedly appropriate. Within the year Brown would be working in the company of a mineralogist who owed his appointment to Greville's interest. This period of Brown's activity is not well-known; for that reason we treat it in rather more detail than the earlier stages.

The *Porpoise* left Sydney in August 1803 before all the natural history collections had been packed. Indeed, it is far from clear what actually did go at that time. One set of Brown's plants certainly was destroyed (BL Add MS 32439 ff 134–135) but as he had kept duplicates the loss was not irreparable. We know that Flinders' collection of rocks went and assume Brown's rocks from southern Australia were lost on the reef. It is not recorded if Allen had any responsibilities towards care of the collections on board. Allen himself went on to China with other survivors from the *Porpoise*. There he took passage 6 February 1804 on the Indiaman *Henry Addington* (India Office Libr., London. Ships' logs L/MAR/B/170C) from Wampoa Reach, Macao, in a convoy of some twenty ships among which the men of the *Porpoise* had been distributed. We know that Allen landed at Brighton 8 August 1804. All trace of him ends with a letter dated 30 August from Banks to Brown (BM (NH) DTC **15**, ff 84–85) mentioning Allen's return and that he had brought news of Good's death. There is nothing about Allen's work, nothing about rocks; it is assumed he returned unencumbered and that no geological collections reached England until 1805. During his stay in Australia, Brown twice sent consignments of specimens to Banks but these were exclusively botanical. Any rocks left behind in August 1803 must have returned with Brown in October 1805.

Brown stayed in and about Sydney, botanizing and arranging his collections, until an opportunity to travel southwards to Bass Strait presented itself. It had been resolved to make a new settlement in that region under a lieutenant-governor, David Collins (1756–1810). Collins set up a camp on the mainland near Port Phillip and established communication with Sydney. The *Lady Nelson*, with Brown as a passenger, left the mother colony at the end of November 1803 carrying messages for Collins. Bad weather in the strait forced her to seek shelter and Collins became alarmed when she failed to arrive. Already convinced the camp was unsuitably situated, Collins decided to combine a search for the *Lady Nelson* with a reconnaissance of the opposite side of Bass Strait. By chance, the schooner sent out by Collins had also to run for shelter in the Kent's Group and there found *Lady Nelson*, which was promptly engaged to convey the search party to Van Diemen's Land. Brown remained on board and so came to witness the beginnings of European settlement in Tasmania.

The death of Good and Flinders's departure had removed the diligent diarists. Brown's subsequent record is quite erratic and, in places, misleading. For instance, he dated his departure on *Lady Nelson* as 1804 instead of 1803, a mistake which has led some to think he twice travelled on her to Tasmania. The chance meeting with Collins's party brought together Brown and Adolarius W. H. Humphrey (1782?–1829), H.M. Mineralogist in the colony. Others in London had heard the representations to which Banks was deaf, that a mineralogist be sent to New South Wales. The man appointed went out with Collins. Humphrey's commission, dated 14 January 1803 (*HR Austr*., ser. 3, I, p. 6), he owed to Brown's correspondent C. F. Greville. His father, George Humphrey, was a well-known London dealer (Whitehead, 1973). For Greville's information George Humphrey prepared a series of extracts from his son's letters (BL Add MS 42071 ff 125–145); these provide necessary supplements to Brown's account.

Sharing acquaintances among the devotees of natural history in London, Brown and Humphrey were to share many experiences in the wilds of Tasmania. But although thus thrown together their relation may never have been especially close. Humphrey, a gregarious type with a distinct inclination to commerce, must have been quite unlike the reserved, even secretive, Robert Brown. Brown has little to say about Humphrey, the return is at once more voluble and respectful. But Humphrey made an impression. Brown resumed collecting rocks. One of his catalogues for this period has been preserved in the Mineralogy Library of the British Museum (Natural History). The manuscript fills 6½ pages of the 8 leaves into which a single sheet (43 × 31 cm) was folded—so many of Brown's notes and lists were entered on such folded sheets—and is entitled: *Collection of Minerals from Kent's Group Dec^r 1803* (cf. Edwards, 1976, p. 402). In fact, after recording four samples from that place the list continues with 18 specimens from Port Dalrymple in northern Tasmania, 2 from Port Phillip and 27 from about the River Derwent. The specimens have not been found but, unlike Brown's previous lists, this one affords means to discover what was collected. It gives rock names, not just localities; here surely is a sign of Humphrey's influence. Brown's new-found lithological fluency found expression also in a unique statement headed *Mineralogy* (BM (NH) Bot. Libr. Brown MS 10 f. 137) near the end of his notes on the plants of the Kent's Group:

> Mineralogy
> Both Islands are high consisting of rounded hills. They are compos'd of granite mostly grey here & there red: both consisting of Felspar Quartz & Mica rarely containing also black schorl: Mica is either colourless or in the red granite black. sometimes wanting Felspar sometimes found in some crystallizd rhombs. The granite with fissures both vertical and horizontal often presenting the appearance of rude & irregularly jointed columns
> The surface of some of the lower hills especially their sloping sides coverd with loose fragments of various: some of considerable size of arenaceous ~~limestone~~ carbonate of lime ([illegible word cancelled by Brown]) not stratified or as far as I could see continuous nor containg marine exuviæ effervescing weakly with acetous briskly with the mineral acids
> Several small runs of water in different parts of the Eastern Island but most of them with an unpleasant sweetish taste
> Soil on the slopes of these hills that are wooded sandy mixed with vegetable mould brownish not deep very loose in the moist valleys a greater proportion of decayd vegetable matter but these in generally swampy on some of the hills the surface coverd merely with coarse granite sand or grit
> Both Islands almost everywhere rise with a steep aclivity from the shore except in the sandy beach of the Island.
> In many places they present to the sea perpendicular cliffs of several hundred feet in height
> The greatest elevation & at the same time the most precipitous quarter is towards W & SW'

Humphrey's more succinct account (BL Add MS 42071 ff 132v–133r) has nothing about acid tests, though he must have supplied the reagents; Brown did not worry about such things while on *Investigator*.

On 1 January 1804 the *Lady Nelson* reached Port Dalrymple. Brown and Humphrey worked about the estuary and its hinterland until the 19th of the month when the ship left for Port Phillip in preparation for moving the settlement to the River Derwent. There was no lack of variety at Port Dalrymple. Brown noted clay and 'oxyd of iron', pudding stone and micaceous schistus, hornslate and granite among others. Some are unfamiliar terms now, none more so than granitell(e). That word, used by both Brown and Humphrey, turns up among the notes for northern Tasmania and the Derwent. Granitell(e) was a term quickly lost in synonymy, a word applied by H. B. de Saussure (1740–1799) to a substance similar to that already called *syenite* by Werner. Brown and Humphrey evidently applied the name to some part or variant of the dolerites that form large intrusive masses across much of Tasmania. Humphrey, after seeing more of the rock near Hobart on the Derwent, decided that this was

> the Primitive Stone, of which all the Mounts of that nature, I have yet seen in Van Diemen's Land, are composed: It consists of Quartz and Hornblend [Granitell] of a dark olive-green colour; the Hornblend is the least considerable quantity of the Mass; and, where it has been exposed to the Weather, is of a Bronze colour (BL Add MS 42071 f. 139v).

The passage continues with a descriptive sketch of the columnar jointing commonly found in the rock. If we add that the rock in fact consists largely of clear plagioclase and dark pyroxenes, not quartz and hornblende, no criticism is intended. Diagnosis of rock-minerals in the days before thin sections was not very refined. Brown (diary, 14 March 1804) by referring to the Granitell as a greenstone strengthens our equation of this rock with dolerite.

Humphrey literally left his mark on northern Tasmania. In his own words, on 13 January 1804 while water casks were being filled 'I amused myself with carving my name A. H. 1804 in the solid Basaltic Rock (the Rocks named in the Chart *Basaltic*, are composed of *Quartz* and *Hornblend*) with Hammer and Chissel' (BL Add MS 42071 f. 134v). The inscription beside the Supply River is still legible. How splendid it would be if the map also remains; a map dated 1804 of any part of Australia and showing geological detail is a treasure still being sought. There is also the matter of Humphrey's collections; none of them has been traced, yet we know he had, as a perquisite of office, free passage for specimens and sent quantities of shells and 'minerals' to his father. The sale in May–July 1808 of his late uncle's (Jacob Forster, 1739–1806) stock in trade (some 5860 lots) included a considerable number of shells from New South Wales and Van Diemen's Land many of them possibly from Humphrey junior. Jameson (1811) in a paper read 1809 states, on Brown's authority, that Humphrey was the discoveror of topaz on Cape Barren Island, Bass Strait, and as that mineral sent from Botany Bay (Sydney) became a common article of trade in Britain (Thomson, 1814) Humphrey no doubt contributed to it. The trustees of the British Museum acknowledged a donation on 10 February 1810 of 'Topaz (Crystallized, white) from New South Wales' from Sir Joseph Banks (MS Donations 1756–1876. Keeper's Rm., Mineralogy Dept., BM (NH)); the sample is presumed lost. [Since the above was completed, the correspondence of Humphrey has appeared in print, see Vallance, 1981.]

Not until Brown and Humphrey and their colleagues moved to Hobart Town in mid-February 1804 is there any record of organic fossils. Writing from Hobart Humphrey advised his father (BL Add MS 42071 f. 138) of his discoveries, among them fossil wood from the Coal River. Silicified wood from Van Diemens Land some years later was a common sight at London auctions. After reading Brown's and Humphrey's records, a perusal of the contemporary catalogues leads to a feeling of *déjà vu*. For instance, Lot 3 on the fourth day of Henry Heuland's (1778–1856) sale of May 1812 includes 'Green garnets, New Holland'. Such were found by Brown and Humphrey on their expedition of May 1804 to the Huon River. In Humphrey's opinion 'The principal of my Discoveries on that journey is the Green Garnet in its Matrix, and on the surface of Pitch Stone, and included in it' (BL Add MS 42071 f. 141); Brown had two samples called 'Pitch stone' in his list for 'Vicinity of the Derwent'. That Heuland (Russell, 1950) was another nephew of Jacob Forster increases the likelihood of Humphrey having provided the specimens offered in London. The locality, incidentally, appears to be the present Port Cygnet area.

There is, of course, no suggestion that Brown turned to commerce through his association with Humphrey but the point should be made that material like that taken by Brown did find its way to the London market. Where is it and where, for that matter, is Brown's? Those having the charge of old collections might bear a Micawberish suggestion in mind. Before exploring the Huon River, Brown and Humphrey had sought the source of the River Derwent and made several excursions to Mount Wellington, then called Table Mountain. The flora of the mountain behind the settlement of Hobart Town fascinated Brown; its rocks and those of the foothills had their own interest. He climbed to the plateau top on 18 February when Humphrey was busy helping at the settlement and on that occasion (diary, 18 Feb.) saw marine fossils (he mentions 'Pectenes' and 'coral'—probably bryozoans) in a 'marl' composing 'the round hills on its base'. On 14 March, this time with Humphrey, he again looked at these fossiliferous rocks. Humphrey called the material 'an Argillaceous Stone, having numerous impressions of Marine Shells, &c. on it' (BL Add MS 42071 f. 139). He refers to the place as a 'Secondary Hill, leaning on the Table' which may imply a stratigraphical opinion but, if so, the thought is not developed. Nor is it one to which Brown gave attention. Yet it led in time to a contribution by William Buckland (1784–1856) of Oxford.

Buckland (1821) announced that in specimens collected by Brown in Tasmania and New South Wales, and given him by the collector, he had recognized shelly fossils (from Tasmania) which in his opinion resembled those of the Mountain Limestone in England and plant fossils (from N.S.W.) like some known to occur in the English Coal Measures. Buckland was attempting, on rough palaeontological evidence, a first correlation of Australian strata with those of Europe. It was an interesting result from Brown's reconnaissance but the circumstances have puzzling aspects. Only one sample ('No 16 Composing hills in the neighbourhood of the Derwent sometimes the cliffs on its shores here & there containing impressions of shells') in Brown's catalogue is recorded as fossiliferous and there is no record of fossil plants from his later visit to the Hunter River in New South Wales.

Brown had left Hobart on 9 August 1804 aboard the *Ocean* bound for Sydney and after spending some weeks there set out 11 October for the Hunter River on the colonial schooner *Resource*. His record of that journey and his boat voyages up the river and its tributaries the Paterson and Williams Rivers is rather thin. In fact, the diary ends 4 November with him still at the Hunter River. We know however he visited the coal mines established a few years earlier and worked by convict labour at Kingstown (the present Newcastle) but there is no mention of seeing fossil plants with the coal. If he collected geological samples and made a list, they are not with his collections at the British Museum (Natural History). What then was the source of Buckland's specimens?

Postlude

Brown's return to England with Bauer on the *Investigator* was mentioned earlier. Bauer, incidentally, had botanized at Norfolk Island while Brown travelled elsewhere in Australia. With them went their collections in 36 packages, including 3 cases of geological specimens—listed in the inventory as Cases XVII and XVIII '{= half Hogshead} Minerals of New Holland, XIII Minerals & miscellaneous articles' (BL Add MS 32439 ff 183–184). There is no detail as to contents. In his manuscript *General Account of a collection of Natural History of New Holland* (BM (NH) Botany Libr. Brown corresp. 3, 125), Brown claimed he collected four packing cases of minerals. Perhaps the fourth was that we believe lost at Wreck Reef.

Before setting out on the expedition, Brown, Bauer, Westall, Good and Allen had each subscribed to an undertaking drawn up by Banks (*HR NSW*, **4**, pp 349–351) that all collections, notes, drawings etc made during the voyage were to be regarded as public property although any items not so required eventually should be at the disposal of the collector, author or artist. Following the return of Brown and Bauer in October 1805, Sir Joseph Banks (to whose house in Soho Square the collections had been removed from Liverpool) seems to have forgotten the agreement. Everything except the plants and botanical drawings was now to go to the British Museum. In the draft of a letter simply marked 'Jan 1806' and intended for the Secretary of the Admiralty (BL Add MS 32439 ff 237–241), Banks wrote:

> '. . . if it should be, as it will probably be the case, their Lordships intention & order the Collections finally to be deposited in the National repository of the British Museum, that orders be given for them to Send the Collections of Minerals[,] Quadrupeds[,] Birds & insects to be placed there immediately & arranged by the officers of the house who are fully Competent to do that Business Effectively.'

Earlier in the same draft Banks referred to Brown:

> '. . . who tho he Profest himself when he engaged in the Service of the Public a Botanist only, undertook at the desire of his Employers to Superintend the Collection of Seeds for the Royal Gardens at Kew assisted by a Gardener who died during the Voyage[.] The Collection of Minerals in which he was assisted by a Derbyshire miner, he [d]id for that Purpose & also the ornithological & Entomological[;] in all which matters, the gardiner & the mineralogist were instructed to assist him.'

The purpose for which the mineral collection was made is not clarified. Banks was not interested and wanted it removed. Why five years elapsed before the Admiralty handed over the collection is a mystery. There is a hollow ring to Banks's apologia for Brown; it was he who insisted on Brown's botanical emphasis, after the association with Hawkins. What Banks really wanted at the beginning of 1806 was an agreement whereby Brown and Bauer could continue in public employment to organize the botanical collection with a view to publication, and in that he succeeded. Thereafter Brown devoted himself to botany, for some years assisting also at the Linnean Society and, after the death of Dryander, as Banks's librarian, right-hand man and, eventually, legatee. With the transfer of the Banksian library and herbarium, the enjoyment of which he had inherited, to the British Museum, Brown became in 1827 keeper of the botanical collection. He continued in that post until his death.

'During his lifetime Brown was never particularly generous with his collections' (Burbidge, 1956, p. 229). That is a botanist's view; his attitude to the rock collections was quite different. Indeed, as we have discovered he was not above damaging specimens already in the British Museum to gratify a friend (or friends). But if Brown cared so little for his geological samples why did he not hand over to the Admiralty (and thus to the museum) all the material he had collected? Only one donation of *Investigator* material is recorded at the museum (6 April 1811) and from that come the samples described in this study. There is no avoiding the conclusion that Brown handed over none of the rocks and fossils gathered after the departure of Flinders. As to the organic fossils Brown not only kept them aside but did not even include them in the list of his collection; at least they do not appear in any document we have found. From this 'extra' collection must have come the samples disposed of privately to Buckland and, possibly, others. Perhaps it was fortunate that Brown failed to follow the Banksian line of 1806. The samples handed over to the Admiralty were forgotten; among those given to friends, some became a source of stimulation to scientific enquiry.

Buckland's remarks on the coal plants from Australia attracted the interest of the French palaeobotanist Adolphe Brongniart (1801–1876) who recognized two taxa new to science on samples sent him from Oxford. Brongniart (1828, pp 54, 152) introduced the names *Glossopteris browniana* and *Phyllotheca australis*. The former was illustrated and described in more detail by Brongniart (1828–38, **1**, pp 223–224) where it is stated the specimens provided by Buckland were supplemented by others collected in New South Wales by R. P. Lesson (1794–1849). Lesson had visited Australia during the voyage of *La Coquille* (1822–1825). It has long been assumed that the Oxford material was collected by Brown, an assumption based largely on Buckland's statement of 1821 and given circumstantial support by the specific name chosen by Brongniart for the *Glossopteris*. But the evidence remains indirect; no Brown–Buckland correspondence referring to Australian fossils has been found. Examination of the types in the Oxford collection, through the courtesy of Mr H. P. Powell, has not resolved the matter. None of the labels or register entries at Oxford gives any clue to an association with Brown. Furthermore, the locality given for the *Phyllotheca*—'Coal Mine Hawkesbury River near Port Jackson, N.S.W. "à la Nouvelle-Holland"'—is that noted by Brongniart (1828–38). In fact the coal mine was at the Hunter River, nearer 100 miles than the 10 miles north of Sydney that Brongniart claimed. If the samples were collected by Brown, the original information has been thoroughly garbled. All we really know is that Brown did gather fossil plants at the Hunter River, that he did not record the occasion in his diary and that he gave some at least of these 'extra' samples to Buckland. It is no more than likely these were seen by Brongniart.

An even greater problem involves the first Australian invertebrate fossil to receive its own place in the language of palaeontological systematics. This is the brachiopod named *Trigonotreta stokesi* by Konig (1825) and described as 'Ex insula Van Diemen Novæ Hollandiæ In transitionis(?) arenario'; the species name was to honour Charles Stokes (1783–1853) 'nobiscum communicata'. It will be remembered that Buckland (1821) also had invertebrate fossils from Tasmania given him by Brown. Again, these must have been 'extra' samples not recorded in Brown's known catalogues. The original *Trigonotreta* has been attributed to the Brown collection (Brown, 1946, p. vii). It is an opinion held widely and to which one of us (Vallance, 1978) has recently given credence. The case is plausible but far from complete. The specimen itself has disappeared. What remains is a wax model (BM (NH) Department of Palaeontology B 4798) associated in its tray with a BM (NH) label indicating presentation by Stokes. Does the label refer to the model or to the original fossil? Of course, the label cannot be 'original'. The traditional belief is that the fossil was first donated to the Geological Society of London. When did it go missing? Brown (1953) refers to specimen B4798 as the holotype mentioning it as a wax cast but in her description of the holotype she writes as though it was natural. Had she seen the original? It remains a rhetorical question, just as the one how did Stokes obtain it in the first place?

Charles Stokes, described by one who knew him as 'almost a universal collector' (Woodward, 1907, p. 73), was an active fellow and for many years a councillor of the Geological Society, the museum of which he enriched with numerous donations. Among these were several collections, large and small, from Van Diemen's Land (Tasmania) and New South Wales, given in the period 1818 to 1827; they are noted in the society's *Transactions* (ser. 1, **5**; ser. 2, **2**). Further details of some of these collections appear in the so-called *Geological Society Waste Books*, now in the Palaeontology Library (BM (NH)) and transferred there when the society closed its museum in 1911. What remained of the foreign collections was then distributed between the BM (NH) Departments of Mineralogy and Palaeontology. Thus three samples of 'serpentine' from Port

Dalrymple, Tasmania, received from Stokes on 6 November 1818 are now in the Department of Mineralogy registered as 1911.1582(1–3). A much larger collection given by Stokes 15 June 1821 included material from the 'Rev Wm Youl' (no doubt John Youl (1773–1827), colonial chaplain—see *Australian Dictionary of Biography*, **2**, pp 632–3) gathered in Tasmania together with samples related to the explorations of John Oxley (1785?–1828) in New South Wales, though that work is also represented by another set of rocks from an unknown donor. There were a few organic fossils in Youl's collection, which incidentally seems to have been made by another as the heading to the original *List of Minerals for the Rev^{d} W^{m} Youl* suggests. Less than a month earlier (22 May 1821) Stokes had donated ten fossiliferous samples from Tasmania. *Waste Book* 2 (p. 23) records them as two samples of 'Ferruginous sandstone with impressions of leaves', six specimens (three designated 'large' of 'Shell limestone—transition?' and two 'Cast of a bivalve' (one 'large'). Neither specific localities nor collector are named. If Stokes gave the *Trigonotreta* specimen to the Geological Society was it on this occasion? Brown (1946) has claimed so. But unless it was one of the 'casts' (for which no matrix is mentioned) which sample would be likely? The shells here were in limestone; Konig is clear that *Trigonotreta* was in sandstone.

That Stokes acquired Australian material from more than one source complicates the issue. Brown's name is not among the identified sources though the omission may not be significant; there are several examples in the Waste Books of Stokes's donations with no comment as to the collector. The case for Robert Brown as the source of the original *Trigonotreta* really rests on the knowledge that he did find shelly fossils near Hobart (in what he called 'marl' and Humphrey an 'argillaceous stone'), that he brought samples home with him and gave some at least to Buckland. Stokes and Brown were also friends, so Brown could have given him specimens. We do not know; the Stokes–Brown correspondence in the Botany Library (BM (NH)) yields no clues. The common view is no more than possible. Indeed, the arguments of Brown (1946; 1953) in favour of Brown as the collector of *Trigonotreta* have difficult aspects. Not only is Stokes's gift of May 1821 a doubtful link on lithological grounds but Buckland's (1821) reference to fossils from a hill south of Table Mountain need not be a hint to Brown's collecting locality. Buckland (1821) dealt with Brown's fossils and also with the collections from the Oxley explorations. It will be remembered that Oxley and Youl were connected in Stokes's gift of June 1821. And in Youl's catalogue no. 46 (17792 in the old Geological Society collection) is described as 'Petrefactions from a hill South of the Table Mountain'. A mark against the entry suggests it was among the residue transferred to the British Museum in 1911. With that single exception, the pieces are now held by the Department of Mineralogy (BM (NH)), registered under 1911,1579. It may be added that a productid brachiopod from Austin's Ferry on the Derwent River is among them. Search in the Department of Palaeontology at the museum, however, has failed to find Youl's no. 46. The search should be continued, for the possibility that Youl, not Brown, supplied the first *Trigonotreta* cannot be ignored.

No matter whether Brown or Youl's supplier or someone else collected *Trigonotreta* from Tasmania, Brown had discovered fossils there and in New South Wales and by passing samples to his friend Buckland helped take the first steps towards elucidation of Australian palaeontological stratigraphy. If Brown's role in that business was somewhat accidental, the *Investigator* expedition had provided a means. This was a case where the sort of collecting recommended by Banks could be useful. But Banks's notion that mere gathering of samples in general would suffice led to weakness in the geological achievement. Rock samples alone can give few insights into the important field of relationships between strata. Neither Flinders nor Brown achieved much more than a limited lithological survey—what Hawkins, in his *Instructions*, called mineral geography. To say that is not to criticize them; they amply satisfied their commission. And in fairness it must be added that a considerable body of scientific opinion then still held to the concept that lithological characters alone were an adequate basis for correlation of strata. The idea had arisen from observed positional relationships between strata in Europe and developed through a notion of world-wide formations into a method of lithological stratigraphy.

Positional observations and lithological characters were used by Baudin's mineralogists to discern stratigraphical order in Australia. Leopold von Buch (1814) had sought system in the samples they brought back, and admitted puzzlement. Perhaps the idea of universal formations was not as infallible as Buch had once thought. But Buch's incisive attention moved to other matters and the Paris collections were forgotten. His doubts were not shared by Fitton in his study (King, 1826) which embraced some of Brown's rocks. In 1826, the lithological approach was being strongly challenged by stratigraphical method dependent on palaeontological evidence. Fitton knew this but, having no fossils, adopted the old lithological scheme. As Brown had no positional detail to offer, Fitton tried to find order in a random collection of rock samples. Fitton's analysis is less impressive than that of Buch more than a decade earlier.

Fitton's lithological comments, however, are worthy of note. The fashion for describing collections of rock samples brought back by explorers was relatively new. In 1818 Konig supplied descriptions of rocks from Zaire, made available by the Admiralty. The parallels and contrasts with the *Investigator* voyage are interesting. That expedition to the River Zaire was led by J. K. Tuckey (1776–1816), who had been with Collins at Port Phillip in 1803, and in Hobart at the time Brown was there. Tuckey had suffered imprisonment by the French even longer than Flinders and was to die a victim of his zeal for exploration. But the rocks gathered on that African expedition not only passed from the Admiralty to the British Museum, they went with a request that they be studied. Konig's report in answer to the request forms an appendix to Tuckey's account (Tuckey, 1818, Appendix VI). Konig had been at the museum when the *Investigator* rocks arrived and succeeded to the keepership of the then Department of Natural History in 1813. Banks's sanguine belief in January 1806 that the officers of the British Museum were fully competent to arrange the collection of minerals may have been justified but it bore no fruit. Flinders was to publish his record of the voyage with only a botanical appendix by Brown. The geological contributions, tucked away in the text, were Flinders's own. For what was done on the collections, Brown had to take the initiative and by then he was fully occupied by botany. Apart from that science, the interests of natural history in the context of the *Investigator* expedition were ill-served, not by those who travelled but by those in London who failed to give adequate support before and afterwards. That there are geological results to consider stems chiefly from the enthusiasm of Matthew Flinders and the occasional attention of Robert Brown.

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Abbreviations Used

BL Add MS	British Library, London. Additional Manuscripts.
BM (NH) DTC	British Museum (Natural History), Dawson Turner Copies. (Botany Library).
HR A	*Historical Records of Australia.* (Sydney, Government Printer. 1914–1925).
HR NSW	*Historical Records of New South Wales.* (Sydney, Government Printer. 1892–1901).

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Appendix

John Hawkins's Geological *Instructions* for Robert Brown (BL Add MS 32439 ff 33–40)

> Original spellings and arrangement are preserved in this transcript. The document is neither signed nor dated and, apart from Brown's addition *M^r Hawkins' Instructions* on the verso of f. 40, there are no annotations. Comparison of the handwriting with that of letters by John Hawkins at the BM (NH) and elsewhere makes it clear that he was responsible for the holograph manuscript.

In a voyage of so much scientifical interest as that which is about to be undertaken to the South Seas it would be wrong not to pay some attention to Mineralogy; at the same time it must be confest that this department of Natural History promises fewer discoveries than the two others which are more particularly the objects of the expedition.

For not to mention the want of a good practical Observer in this line, among the men of Science who have been selected for this voyage, the means of observing are fewer, more leisure is required for making discoveries and there are much greater physical impediments to the acquisition of knowledge.

The countries which are likely to be visited, are for the most part overgrown with wood, difficult of access and if inhabited, insecure. The Mineralogist therefore can only form a judgement of the nature of their constituent strata and of their productions from the natural sections of these strata which are exposed in the cliffs & ravines near the Sea or from the alluvial contents of the river beds or from the substances rejected by the tides on the shore.

The means of observation being so limited, the information thus obtained will necessarily prove less conclusive & important than could be wish'd; nevertheless it will be both usefull and acceptable if made with an attention to accuracy and method.

The following hints, it is presumed, may serve to direct and facilitate such enquiries.

Distant sea views of Islands & Continents as they present a general idea of their rise [,] elevation and vertical outline, ought to be correctly delineated not merely for the information of the Geologist, but for the advantage of the Navigator.

On a nearer approach, the more particular features of this outline unfold themselves. The mass of high ground then gradually divides itself into ridges, which successively develope their distinct features and arrange themselves under a proportional scale of heights, the highest ridge being most probably at the greatest distance from the sea shore.

This different aspect of the country must be marked by an accurate drawing.

Mountains of a volcanic origin may be distinguished at a great distance by their invariable tendency to assume a conical form, by their insulated position in respect to other mountains which are usually connected together in the form of ridges, by the smoke which they emit and by the general redness of their tints.

Mountains of this description abound in curious subjects for drawings, but those which are selected by the Naturalist are not in general such as would satisfy the Artist or the Connoisseur for they are not the most picturesque.

The points of view which are most characteristical of the volcanic phoenomena will be chosen as indeed they ought to be for a voyage which is devoted to the purposes of Science and the Artist must submit, however reluctantly, to delineate objects which will certainly not exhibit his talents to the best advantage. He must be guided in fact in their selection by the man of Science and must consider the accuracy of his portrait as the greatest test of its merit, avoiding every thing like picturesque embellishment.

Mountains too which are not volcanic and the natural sections of the strata on the Sea-shore will frequently afford very interesting subjects for geological drawings.

For the forms of hills & mountains are often characteristical of the strata which compose them and sometimes they expose to view their constituent strata.

Both the distant and the near views which are taken of every new land, will furnish a very adequate idea of the form of its superficies, but if description is to be employed in aid of delineation, it will be difficult to avoid incongruity for it is mortifying to observe that the language of geological description is not yet formed or fixed, insomuch that nothing can be more vague and indeterminate than what has been hitherto used for that purpose by Travellers & Naturalists. Not only the terms are confounded but the order inversed too in which they ought to be applied, in consequence of which no clear ideas are presented to the mind and no information.

Travellers indeed more frequently belong to the class of picturesque than of geological observers and their descriptions of the face of a country relate more to its effects on the eye than to its structure and composition; but in a voyage like this, it is presumed that the latter will be thought a much superior object of curiosity to the former and will almost exclusively occupy the attention of the Journalist.

The natural order of things, so far at least as they are objects of sensation, will suggest that which ought to be pursued in his description. The great and the general features are to be seized first, Let him descend by degrees to the particular ones and dwell chiefly upon such as are the most characteristical.

After describing the face of a country, that is, the form of its superficies and even its verdure or sterility; let him state what he has been able to observe of its constituent strata and what he is authorized to conclude from analogy.

It has been already remarked that the forms of mountains are influenced by the nature of their constituent strata, and although this rule is more particularly applicable to some strata than to others and requires a practised eye it will be found of great service in assisting enquiries of this nature, especially in countries so difficult of access.

It may be proper, in this place, to cite some examples of these modifications of the forms of mountains. The volcanic have been already mentioned, they are perhaps the easiest of all others to recognize and next to these the Whinstone or Basaltic, which from the peculiarity of their profile in some countries are termed Step mountains. These are often insulated & conical but have always a truncated summit. Hills or mountains of Sandstone present at a moderate distance a convulsed grotesque appearance.

Calcareous mountains are broken into vast chasms, abound in declivities & caverns and may be farther distinguish'd by their tint. There are no mountains altogether so picturesque as these. Most of the great Chains which traverse Europe are chiefly composed of calcareous Strata.

Mountains of Granit, Gneiss & Micaceous Slate have less boldness of character and more uniformity.

The first rarely occur in ridges and present not often unequivocal marks of a regular stratification. The rock however divides into vast masses which are exposed on various parts of the surface and may be distinguish'd by their grotesque appearance at a distance.

Mountains of Gneiss & Micaceous Slate are not only regularly stratified, for they frequently alternate with strata of granular marble, but the Strata divide into thin Lamellae which gives a shattered & shivery appearance to their declivities. Mountains of Argillaceous Slate participate of these external characters, but are much more favourable to vegetation.

It is necessary to remark that the term Mountain is not used here in its most limited Sense.

The study of the characteristical forms of mountains in relation to the strata which they contain is usefull moreover to the Navigator as well as the Geologist by pointing out those situations where he is most likely to find water. Calcareous mountains for instance are remarkable for the paucity of their springs and for the saline nature of them, but mountains of Gneiss[,] Micaceous Slate and Argillaceous Slate abound at every stage of their elevation in sources of the purest water. Calcareous mountains too discharge their collected water from a few situations at their bases, usually at no great distance from the sea and generally on a level with it. Volcanic countries are still more destitute of springs of potable water than even calcareous.

On a nearer view of the strata of mountains other characters occur, which point out the nature and value of their contents & the utility of farther research.

Some for instance are metalliferous & others not.

There are some which are observed to contain only a limited number of the known metallic substances and there are some metallic substances which are found in certain strata only.

Precious stones too are probably generated in some peculiar rocks, of which in some instances they are known to form a constituent part. We may add to these observations that certain Strata point out in an infallible manner the vicinity of Coal, Rock Salt, Alum and other valuable mineral substances. Nevertheless, the Strata which are productive of Metals are by no means in every situation of the Globe equally metalliferous. Granit for instance and calcareous Strata are generally destitute of metallic contents.

Again, the more recently formed Strata seldom contain the noble metals, unless it be in an alluvial state, which is the result of accident. As for the value of a newly discovered country abounding in metals or precious stones; that will depend upon the facility of Colonization upon the favourable circumstances of the ground in respect to mining labour & machinery and upon the abundance of timber and fuel.

The most flattering indications of Metals however often prove fallacious.

It may be usefull to remark in this place that certain metals are always found in their perfect state and others always oxydated or mineralized; many however are found both in the one state and the other.

Also, that some metals are found only in the situations where they were generated and that others are equally found in situations where they have been removed by accident.

The first metal known to unpolish'd nations, is Copper, not because it is the most abundant, but because in a pure state it more often occurs than any other and in situations perhaps more accessible.

The next is Gold, which is easily collected by the inhabitants of many unpolish'd countries in the beds of torrents & rivers when exposed by the heavy falls of rain.

An effort of Art & much Labour were required to reduce Iron to a state fit for use. It appears therefore to have laid long unknown and neglected. Gold & Copper then are the only metals which are likely to be found in the possession of the natives of those countries which will be visited but more generally their use is supplied by hard stones which the natives have found the means of shaping into instruments of war and of fashioning into ornaments of dress. A sort of Lava is applied by the South Sea islanders to the former and Jade to the latter. The precious stones if known to them are neglected on account of their diminutive size and perhaps on account of the impossibility of perforating such hard bodies.

In countries so remote and uncivilized, Discoveries of this kind are not likely to be of much utility and are chiefly interesting to the Geologist who is desirous of learning whether the mineral productions of that extremity of the Globe are analogous to those of our own and how far in respect to the mineral kingdom Nature has been uniform or capricious in her operations.

It is this point of view which ought particularly to be chosen by the Scientifical Gentlemen who are employed in this expedition. The Task assigned to them being Mineralogical Geography. After an accurate description & delineation of the face of the countries which they visit they will be required to give us some account of their constituent Strata, so far at least as the opportunities which they shall have for information, will admit of.

A collection of well chosen specimens too, will be considered as indispensibly necessary for the correction & confirmation of their observations.

In the process of observing, a variety of circumstances deserve to be noted which those who are little versed in the Science of Geology may neglect from their apparent unimportance and which those who are not in the habit of observing may overlook. It will be usefull therefore to state what these circumstances are.

Ridges of Mountains are observed to be composed of very different Strata from those which constitute the intermediate Plains.

The Strata in each seperate chain of non-volcanic Mountains follow each other in a certain order.

This order must be traced and investigated. If the bulk of elevated ground is considerable, it will be found to consist of a central ridge and of one or more parralel and subordinate ridges which are easily discriminated by their forms and by their constituent Strata.

The exterior or lowermost ridge usually consists of the more recently formed Strata, the next in succession of the metalliferous and the third or central ridge of the oldest which are often granitical. But these three will be more or less mixed; the strata of the second ridge for instance will often be found imposed on those of the central and the strata of the first ridge on those of the second.

These observations however are applicable only to such large chains of mountains as cheifly determine the forms of countries, for the smaller chains which intersect them are by no means so composite.

Nor is it to be inferred from what has been said of the larger chains, that the oldest Strata are constantly to be met with in the most elevated positions; on the contrary, they often constitute the basis of maritime countries & islands. Elevation therefore is no just Criterion of the relative age of the Strata but Infraposition.

For that which is subjacent to every other stratified mass must be the oldest and that which covers every other must be the most recent. As the Mountains (even the Granitical) are stratified, it is easy to ascertain how far the Strata have been moved out of their original horizontal position.

In general they are observed to rise and fall towards the central ridge to which they appertain, but in no very uniform manner. It will be usefull to attend very particularly to this fact.

To this inclination of the Strata and their necessary disruption we are principally indebted for the means of exploring their contents and their relative position. The principal Vales owe probably their origin to such revolutions. If a portion of mountainous country so circumstanced be very regularly stratified the strata will shew both the degree and the direction of their inclination in the general form of the superficies, but some mountains have such an irregular & imperfect stratification that no Criterion of this sort can be taken from them.

The most instructive examples in this way are furnish'd by the compound stratified mountains, some of which will probably occur in the course of the voyage.

It is owing to the changes which have taken place at very remote periods, in the form and arrangement of the Strata and to the subsequent operation of floods that we find their fractured contents removed to such a distance in the beds of rivers and in the soil of vallies the inspection of which may be considered as the first preliminary step to a knowledge of the constituent Strata of a country.

To these situations above every other, in the onset of his enquiries, the traveller is referr'd for Geological information. They will be found singularly instructive in regard to the productions of those parts of the interior which he has not the means of visiting.

The discovery of precious stones and of metallic substances must cheifly be expected in such situations. Of the latter, the most prevalent are Tin & Gold. All these may be detected by their specific gravity and therefore will be found collected in the lowest beds of these alluvial depositions. The force of torrents indeed often expose them but more generally they are discovered in mining countries by regular excavations. The more valuable parts of the sand are then extracted by Elutrition, the particles subsiding in the water according to their proportionate size and their specific Gravity: but much depends upon the dexterity with which this operation is conducted and on the impliments that are made use of for this purpose.

If the Gentlemen who are employed in this expedition had been more in the habit of pursuing these enquiries, a much greater variety of important matter might be pointed out to their attention and many more usefull hints might be given for directing their observations.

It remains now for the writer to give a few instructions for collecting specimens of the mineral productions of these new countries, a point of the utmost importance in respect to the verification of the discoveries which will be made in this line.

In the composition of the sand or the shingle of the sea beach will be found the more indurated contents of the neighbouring Strata, which although worn smooth by attrition are not to be rejected unless better specimens can be obtained from their native beds.

The substances more commonly found in such situations are Agates[,] Jaspers[,] Calcedonys and Quarz.

From the inspection of the Sea beach some judgement may be formed of the contents of the neighbouring cliffs & hills.

The Cliffs present the most striking and instructive Phoenomena. The metallic substances are often exposed there to view in their native beds or veins.

In the choice of specimens both of the rock and of the substances which it encloses, care must be taken to select such as shew the characters by which they are distinguish'd, in their most perfect state. They must be taken therefore from the more solid & undecayed parts of the mass and must be sufficiently numerous to exhibit all the varieties of grain[,] form and colour. The most convenient size & shape is an oblong of the dimensions of a mans hand and nearly of the same thickness.

Immediately after being broken off they ought to be protected from the moisture of the hand and enveloped in paper, numbered & deposited in a barril. The numbers are to be continued until the barril is full when the barril too is numbered or lettered.

The numbers on the papered specimens refer to a short catalogue which records the places where the specimens were found together with such circumstances immediately connected with them as are thought worthy of being subjoined, but as for any general information on this subject it must be drawn up in a seperate form after the country has been more fully investigated and the dispersed local information acquired in repeated excursions has been collected into a Focus.

The Miner who will regularly attend the party upon these occasions must be employed in breaking the specimens with his Sledge hammer and in carrying them in a large leathern pocket appendant like a Gamekeepers bag to his side. It is hoped that he will generally be pretty well loaded.

If the specimens are well chosen, that is, if they are of the form above prescribed, taken from the more solid parts of the rock exhibiting a fresh fracture on all sides, unsullied by the touch, every object of their collection will be attained, but if these circumstances from their apparent triviality are not carefully attended to, the labour bestowed on the collection will be of little utility.

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W. Campbell Smith

Historical series
Vol 10 No 2

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Research in mineralogy and crystallography based on the great collections in the Department of Mineralogy began only after the appointment of Professor Nevil Story-Maskelyne as Keeper of Minerals in 1857.

N. S. Maskelyne, as he was generally known, had taken his degree in mathematics at Oxford in 1845; and he had also studied chemistry and conducted further study for a time in Faraday's laboratory at the Royal Institution. Since 1850 he had been acting as deputy to William Buckland whose health was beginning to fail and he succeeded him as Reader in Mineralogy at Oxford after Buckland's death in 1856. This appointment fortunately did not debar him from accepting the post of Keeper of Minerals at the British Musem offered him in the following year. He occupied both positions with distinction until 1880 when he resigned his museum appointment, his father having died the previous year leaving him heavy responsibilities on the family estate in Wiltshire (Spencer, 1911*b*).

Maskelyne's predecessor as Keeper of Minerals was Charles Konig, who had become Keeper of Minerals (including secondary fossils) in 1837, when the old Natural History Department of which he had had charge since 1813 was divided into three: Botany, Zoology, and Mineralogy. Konig had always devoted much of his time to the care of the mineral collections; however, he had neither the opportunity nor the facilities for any crystallographical or chemical research beyond tests needed for identification. In the galleries and rooms occupied by the mineral collections facilities for laboratory work seem to have been minimal and apparatus almost non-existent. Maskelyne overcame some of these difficulties and he and his few assistants, never more than one at a time, achieved much in descriptive mineralogy and crystallography. No artificial light was allowed in the old buildings, except in a locked lantern brought on request by an attendant, and Konig had complained that he could not use his reflective goniometer either in his room or in the gallery. Maskelyne installed a heliostat so, at least when the sun shone, a steady light source was available (Campbell Smith, 1969).

At first the only help Maskelyne had was one 'Third Class Attendant', Thomas Davies, the son of William Davies who was an Attendant in the Department of Geology. Thomas Davies was twenty when appointed to the Museum staff, having already spent four years at sea. He knew little about scientific mineralogy, but he developed a flair for remembering and recognizing the important characters of specimens and under Maskelyne's tuition became a very competent curator (Fletcher, 1893*c*).

It is hard to over-estimate Maskelyne's influence, for it pervaded the whole of the seventy years under review, and this is scarcely surprising since he at the British Museum and Oxford, and W. H. Miller at Cambridge, together kept mineralogy and crystallography alive in England in the third quarter of the nineteenth century. The recruitment, in later years, of Fletcher, Lewis, Miers, Prior, Spencer, Herbert Smith, Campbell Smith, and Mountain—all Oxford or Cambridge men—was one direct consequence.

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Maskelyne's decision to adopt Gustav Rose's system of classification (1852) for the arrangement of the mineral collection—a task which must have occupied the greater part of his early years at the Museum—together with his interests in optical and morphological crystallography, and chemical analysis, determined the direction of research, for it revealed many gaps in the collections and deficiencies in the descriptions of mineral species in the literature. It was not until 1927, when Bannister was appointed to develop in the Department the application of X-ray diffraction techniques to minerals, that there was a significant addition to the methods of investigation initiated by the perceptive Maskelyne. By 1863 he had completed the rearrangement and was able to issue a 'Catalogue of Minerals with references to the table cases . . . in the British Museum'; a new edition was published in the following year. Later editions were entitled 'Index to the Collection of Minerals . . .' and 'A Guide to the Collection of Minerals, British Museum' had appeared in 1862.

In 1862 Maskelyne had invited Viktor von Lang of Vienna to join the Museum staff. Von Lang, then a young man of 24, was a Privat-Dozent in physical crystallography in Vienna. After two years at the British Museum he returned to Vienna and became Professor of Physics there in 1865. He published his *Lehrbuch der Krystallographie* in 1866 and, one supposes, exchanged ideas freely with Maskelyne who also had *Treatise on Crystallography* in hand at the same time, although regrettably, he did not publish his (Maskelyne, 1895) until thirty years later (Spencer, 1921*b*). Maskelyne and von Lang jointly published several notes on minerals from Cornwall and elsewhere and he also described a new mineral, langite, named for von Lang (Maskelyne, 1864*a*). Von Lang himself contributed notes on the crystalline form of lanthanite; on new forms in mesotype (natrolite) measured on crystals labelled brevicite; on malachite, describing crystal forms and optical properties; on some artificial crystals of gold, sent by Dr Percy; and on some combinations of eudialyte (Maskelyne & von Lang, 1863*a*). In the following year, 1864, his Mineralogical Notes dealt with gadolinite; and with gismondine and herschelite, a variety of chabazite in which he demonstrated the pseudo-hexagonal twinning (Maskelyne & von Lang, 1864).

These 'Notes' were mainly descriptions of the crystal forms of the minerals discussed, with records of the measurements of angles. In some cases the only crystals available were very small and in his first paper on connellite Maskelyne described how they overcame the difficulty of measuring them; the same specimen of connellite, from St Day United Mines, was the subject of a subsequent X-ray study by Bannister *et al.* (1950). Noting that some crystals were very small (less than about 2.5 mm long) and richly facetted, he wrote: 'it would be almost impossible to obtain measurements of any value by the ordinary reflecting goniometer. But by means of a small plano-convex lens in front of a small telescope with magnifying power about nine times attached to the goniometer, and which converts that telescope into a sort of microscope of low power, it is not difficult to obtain measurements of considerable exactitude' (Maskelyne & von Lang, 1863*a*). The idea of using an auxiliary lens in front of the telescope is probably attributable to Mitscherlich (1843), and von Lang, as a result of his work at the British Museum, devised an improved goniometer which he described in 1876.

After von Lang's return to Vienna there was an interval of three years during which Maskelyne worked alone and published several papers on rare minerals from Cornwall, describing two of these, lyellite and waringtonite, as new minerals (Maskelyne 1864*b*). They are now known to be synonyms of langite and brochantite. In 1877 he published three notes on the crystallography and optical characters of the new mineral ludlamite (Maskelyne 1877*a*,*b*,*c*), described by Field (1877) and in the following year he announced the discovery of another new Cornish mineral, liskeardite (Maskelyne, 1878).

By 1863 and 1864 Maskelyne had begun publishing the results of his work on the meteorite collection and he contributed in addition to his Notes with von Lang a short paper on 'aerolites' (Maskelyne, 1863), and one on 'meteoritic stones' (Maskelyne, 1872*c*). He continued this work on meteorites using thin-sections and a Powell and Lealand microscope purchased in 1863 to which he had had fitted a polarizer and analyzer and a rotating stage, and in 1870 and 1871 he published four important papers on the mineral constituents of meteorites, which he had read before the Royal Society (Maskelyne, 1870*b*,*c*; 1871*a*,*b*). His last paper on meteorites before he left the Museum was a brief note on the Rowton siderite which had been seen to fall on 20 April 1876; it remains the only iron meteor seen to fall in Great Britain (Maskelyne, 1876).

At about this time Maskelyne turned his attention to the study and identification of precious stones. He prepared the 'Report on Jewelry and Precious Stones' for the Paris Universal Exhibition (Maskelyne, 1868) and later catalogued the Marlborough gems at Blenheim Palace; this was privately printed (Maskelyne, 1870*a*).

In 1867 a chemical laboratory was fitted up in a nearby house, 46 Great Russell Street, and Walter Flight was appointed as an additional Assistant. This tradition of chemical analysis continued in direct succession to Prior, Mountain (briefly), Hey and on to the present day. Flight was a highly qualified chemist, having studied in the Universities of Halle and Heidelberg and worked for a time in Professor A. W. Hofmann's laboratory in Berlin.

Maskelyne and Flight together published a series of fifteen Mineralogical Notes in the *Journal of the Chemical Society* (1871, 1872, 1874) dealing with some sixteen minerals. Several of the specimens were submitted by R. Talling, the mineral dealer of Lostwithiel: some were known to be from Cornwall and probably all of them were, but Talling did not always 'reveal' his localities. The specimens were of vivianite, cronstedtite, 'francolite', a mineral described as prasine (a synonym for pseudomalachite), and a specimen believed to be the woodwardite of Church but shown by Maskelyne and Flight to consist of langite with 'one or more hydrated aluminium silicates'. The 'francolite' was shown to be a fluor-apatite but not the same as the francolite from Wheal Franco, although Dana quotes Flight's analysis as being that of francolite (Dana, 1892, pp. 765–6). Another analysed specimen from Cornwall is uranite from near Redruth, but the analysis shows 2.5% of bismuth oxide and only about 4% CuO (Maskelyne & Flight, 1872).

Andrewsite, another Cornish mineral, was described in the last of this series of Mineralogical Notes, and so also was chalcosiderite to which andrewsite is very close (Maskelyne, 1872*b*, 1875*a*). Maskelyne gave measurements and a drawing of a crystal of chalcosiderite, both reproduced by Dana (1892, p. 854) quoting analyses from an earlier paper (Maskelyne & Flight, 1871).

Other specimens reported on are: pisolitic iron ore from North Wales and Anglesey; Iona stone, 'miscalled jade'; caledonite from Leadhills, Wanlockhead, and lanarkite; opal from Waddela Plain, Abyssinia, collected by Mr Masham on Napier's expedition in 1868; 'isopyre' from South Africa; and percylite probably from the same locality; and vanadinite. On a small crystal of percylite Maskelyne succeeded in obtaining a measurement of three planes in a zone giving angles corresponding with those of the rhombic dodecahedron (Maskelyne & Flight, 1872).

One of the earliest of these notes (no. 7) (Maskelyne & Flight, 1871), gives an analysis of a mineral, 'meerschaluminite', described by Major W. A. Ross (1869), which is shown to be near pholerite, a variety of kaolinite. Flight's last mineralogical paper was on two new minerals, evigtokite and liskeardite (Flight, 1883); he died in 1885 at the early age of forty-four.

Reading through these notes of over a century ago, it may seem that they are now of little importance. However, most of Flight's analyses were quoted by Dana in the early editions of his *System of Mineralogy* and some of them were still the only ones available when he published his sixth edition in 1892.

The next addition to Maskelyne's staff was one of his own Oxford pupils, William James Lewis. Lewis had worked in the Department as an 'outside worker' in 1872 and was appointed an Assistant in 1875; but he had to resign in 1877 because of lung trouble. By way of effecting an improvement in his condition he joined an expedition to Spitsbergen. On his return he went to Cambridge to act as deputy to Professor W. H. Miller, whose health was failing; he succeed Miller as Professor in 1881 and occupied the chair for 45 years until his death in 1926.

His published work during his period at the Museum consisted of papers on glaucodote, sphene, gold, and barium nitrate which were published in the *Philosophical Magazine* and reprinted in the *Proceedings of the Crystallological Society* of which Lewis was the first, and last, Secretary (Lewis, 1877*a*,*b*). A notebook kept by Lewis when an 'outside worker', dated 1872, records measurements on glaucodote, and on pyrite and cobalt glance (cobaltite). His observation books from May 1875 to 1876 record measurements on gold, copper, sulphur, skutterudite, mispickel, (arsenopyrite), argentite, redruthite (chalcosine), blende, greenockite, galena, and calcite.

He was an enthusiastic measurer of crystals and to work with him on a difficult crystal was an absorbing occupation. He worked with a student's Wollaston vertical circle goniometer in the old mineral gallery in the Free School Lane buildings and used as his light source the signal in the window opposite illuminated by a tilting mirror on the window sill outside. I never saw him use such a modern piece of apparatus as a horizontal circle goniometer. Spencer, in his obituary notice of Lewis, said of him 'To his credit he made no great burden for the bibliographer. In the preparation of his excellent text book on geometrical crystallography published in 1899, he devoted much time and infinite pains' (Spencer, 1927*a*).

Lazarus Fletcher, who was to be Maskelyne's successor as Keeper of Minerals and ultimately Director of the Natural History Museum, was appointed an Assistant in the Mineral Department in 1878. He was a mathematician already with a distinguished career at Oxford, a Fellow of University College, a Demonstrator in the Clarendon Laboratory under Professor R. B. Clifton, and Millard Lecturer in Physics at Trinity College. His life and work have been admirably described by Sir Henry Miers (1921) in a biographical notice. Miers has told how through Fletcher's chance scanning of the pages of Groth's *Physikalische Krystallographie* he became interested in crystallography and was soon brought to the notice of Professor Story-Maskelyne. There was a vacancy in the Department of Mineralogy in the British Museum caused by Lewis' early retirement and Maskelyne suggested that Fletcher should be a candidate. He was appointed an Assistant in 1878, and succeeded Maskelyne as Keeper on the latter's retirement in June 1880.

Fletcher's first task was to supervise the removal of the collections from Bloomsbury to the new Natural History Museum in South Kensington. This commenced in July 1880 and lasted until the new Museum was opened to the public in April 1881. During the move Fletcher had the assistance of H. M. Platnauer and Thomas Davies. In the first few years after the move of the collections Fletcher can have had little time for any crystallographic or mineralogical research. He had published an 'Index to the Collection of Minerals', and a 'Guide to the Collection of Meteorites' in 1881, and had completed his guide and 'Introduction to the Study of Minerals' in 1884. However, while still at Bloomsbury he had begun work on the 'Crystallographic Catalogue' which Maskelyne, no doubt influenced by the purchase in 1860 of the Allan-Greg collection, started in 1875 as a 'scientific catalogue of the whole collection, with crystallographic descriptions and chemical analyses of those specimens the composition of which it is desirable more accurately to determine'—as he himself described it in his annual return for that year (Campbell Smith, 1952). All new recruits to the Department (until about 1950) were assigned work in connection with this catalogue and it set the pattern of, and provided the material for, much mineralogical research.

The results of Fletcher's work for this catalogue, beginning with the native elements and simple sulphides, resulted in a series of Crystallographic Notes published in the *Philosophical Magazine* and reprinted as part of the *Proceedings of the Crystallological Society*. The first of these notes described crystals of copper, silver, gold, bismuth, sulphur, nagyagite, and realgar (Fletcher, 1880*b*) followed, after the move, by a description of a twin of zircon (Fletcher, 1881), a note on crystals of skutterudite (Fletcher, 1882*a*), and an important paper on copper pyrite twins (Fletcher, 1882*b*). In addition to this work on minerals Fletcher wrote an important paper on 'The dilatation of crystals on change of temperature' (Fletcher, 1880*a*), published before his first crystallographic notes. Miers (1921) has given an account of the interest aroused by this paper and of how Fletcher set about a fresh study of the whole problem, work which was interrupted by illness but nevertheless finished and, with Miers' help, published (Fletcher, 1883).

Later, Fletcher returned to a kindred subject on which he could use his mathematical ability and his training in physics. This produced what Miers described as 'the highest achievement of his scientific life', the remarkable memoir on 'The optical indicatrix and the transmission of light through crystals' (Fletcher 1891), published also in book form in 1892*a*, and in German translation in 1893*f*.

In 1886 Fletcher produced an 'Introduction to the study of meteorites' with a list of meteorites represented in the collection and from then on such time as he had to spare from the management of the Department was devoted to the description and analysis of the meteorites, and to maintaining records of the place and circumstances of each fall or find.

However, he did make several further contributions to descriptive mineralogy. His paper 'On cubic crystals of graphitic carbon', which he named 'cliftonite', was the outcome of his study of the Youndegin meteorite (Fletcher, 1887*a* and *b*). These little cubes are now known to be pseudomorphs in graphite after a cubic mineral, probably diamond (Hey, 1938; Grenville-Wells, 1952).

Fletcher and Miers (1887) supplied chemical analyses of the feldspar crystals from Kilimanjaro sent by Sir Harry Johnston, and showed that they contained over 4.5% potash. Miers, redescribing the crystals and their optical properties, showed them to belong to the group which included the anorthoclase of Rosenbusch (Miers, 1886; Fletcher & Miers, 1887). It is interesting to note that J. J. H. Teall had observed that these crystals resembled the feldspar insets in rhombenporphyr from Christiania. In the same year, Fletcher identified and described crystals of cuprite and cerussite formed on and around Roman coins buried for about 15 centuries (Fletcher, 1887*c*).

In 1889 a specimen of percylite from a mine in Atacama attracted Fletcher's attention, because of its rarity. Other specimens from the same mine were obtained and, in addition to many interesting lead and copper minerals, he picked out some very small hexagonal crystals, less than 1 mm in diameter, some of which he succeeded in measuring. From his measurements he identified them as caracolite, a new mineral described in the previous year by Professor Websky. He also found in a cavity less than 2 mm in diameter some minute, elongated, colourless crystals. Though less than 1 mm in length and about $\frac{1}{6}$ mm wide, he obtained good measurements of these and provided excellent drawings. From simple wet and dry tests carried out with great skill on single crystals, he concluded that they might be an oxychloride of lead, but could not correlate the angles with those of any known mineral of that composition. Believing it to be necessary 'for purposes of reference at least' to give a name to it he named it daviesite, in honour of his colleague Thomas Davies (Fletcher, 1889); the crystals have recently been identified as hemimorphite (P. G. Embrey, pers. comm., 1963).

Fletcher returned once more to work on rare and new minerals in 1892 when Mr Joseph Baddeley offered to present to the Museum one of the eight or nine pebbles of the new mineral recently named geikielite by Allen B. Dick of the Geological Survey (1893; paper read 14 June 1892). Fletcher noticed among these few pebbles one which showed some crystal faces and this he selected for the Museum. He succeeded in measuring the faces and determining the optical properties and, by a long series of qualitative tests, proved the material to be zirconia. He named this new mineral baddeleyite (Fletcher, 1892*b*; 1893*a*,*b*). By an odd coincidence, Dr E. Hussak had described, under the name brazilite, crystals occuring in jacupirangite from Sao Paulo and at first believed to be orthite but later shown, by Professor Blomstrand, to be 'almost pure zirconia'. Crystal measurements had confirmed the identity of brazilite and baddeleyite and Dr Hussak withdrew the former name (Hussak, 1892; 1895).

Fletcher's later work was almost wholly devoted to meteorites but he also wrote several articles on the precious stones of the Bible (Fletcher, 1893*e*), the principal one being in a guide to an exhibition at the Museum in connection with the tercentenary of the publication of the Authorized Version in 1611 (Fletcher, 1911).

Although not trained as a geologist or petrologist he wrote in 1895 'An introduction to the study of rocks'. This gave references to an exhibit in the Mineral Gallery and was also a guide to the exhibited series of rocks. Fletcher described it as an attempt 'to give, from a Museum point of view, a simple sketch of the relationship of rocks indicating at the same time all the more important characters and pointing out their significance'. It ran to six editions.

Henry Alexander Miers had joined the Department in 1882. He had gone up to Oxford from Eton with a classical scholarship but he read mathematics as well and, later, hearing that there was to be a vacancy for an additional Assistant in Mineralogy, he decided to read for that also. He was the only pupil in the subject at that time and Professor Maskelyne used to go up for week-ends to give him 'lectures' in crystallography and mineralogy. Miers evidently worked to good purpose for he defeated his only serious competitor, Frederick Sanderson, later to become the famous Headmaster of Oundle. Miers had also spent two vacations in Cambridge studying there with W. J. Lewis, and had worked under Groth at Strasbourg for another three months. Thus he arrived at the British Museum tolerably well equipped and was immediately appointed as a First Class Assistant.

Walter Flight, the chemist, died only three years after Miers' appointment; he was a great loss to the Department. Fortunately the vacancy was filled by the appointment in 1887 of George Thurland Prior, who had graduated from Magdalen College, Oxford, with first class Honours in both Physics and Chemistry in 1886. He had also studied chemistry for some months with A. Classen at Aachen. Prior was put in charge of the chemical laboratory and at once began collaboration with Fletcher and Miers, undertaking the analytical work on the minerals and meteorites which they were investigating. This collaboration continued with excellent results when L. J. Spencer joined the staff in 1894.

Whereas Fletcher, as his contribution to the 'Crystallographic Catalogue' had studied the elements and sulphides, Miers seems to have started his part of the catalogue with sulpharsenites, sulphantimonites, and so forth, and this led to his early paper 'On the crystalline form of meneghinite' (Miers, 1884*b*), which was followed by 'The crystallography of bournonite', read before the Mineralogical Society in 1884 (Miers, 1884*d*).

Meneghinite was known only as a very small crystal with few end faces, difficult to measure satisfactorily. Using a Fuess horizontal-circle goniometer Miers succeeded in measuring several crystals with good results. He showed that the mineral crystallizes in the orthorhombic system but that its parameters could not be made to agree with those of jordanite, although the two minerals were analogous in composition. Miers pointed out, however, that there was a relationship between his meneghinite parameters and those of stephanite, $4[Ag_5SbS_4]$. The formula now proposed for meneghinite is $2[CuPb_{13}Sb_7S_{24}]$, jordanite being $2[Pb_{14}As_7S_{24}]$. It is considered that the small amount of Cu, about 2%, is an essential constituent (Berry & Moddle, 1941).

The paper on bournonite took, as Professor Watts remarked in his Jubilee Address to the Mineralogical Society, a monographic form. It contained a list of all previous publications on the mineral, as well as a complete list of crystal forms with comments and including 29 new forms found by Miers during his investigation, all with supporting measurements. His table of interfacial angles gave a list of over 1000 angles and the paper ended with a full discussion of the twin growths, particularly of the wheel-shaped groups from Herodsfoot, and the Radelerz from Kapnik, all well represented in the British Museum Collection.

After the completion of this paper Miers seems to have devoted his research work to the group of 'red silver ores' (Rothgültigerz), of which the most important members are proustite and pyrargyrite. The main paper was not read until May 1888 but in the previous year he and Prior read a paper 'On a specimen of proustite containing antimony' (Miers & Prior, 1887). Miers had also used some of his collected data on proustite and pyrargyrite to illustrate a short paper 'On the use of the gnomonic projection' (Miers, 1887). The paper, with Prior, was a study of 'a magnificent piece of proustite from Chanarcillo, Chili'; brilliant lustrous prisms in a radiating group. The sensitivity of this specimen to light is such that it has to be kept in the dark. Miers obtained good measurements on three scalenohedral crystals whilst Prior made analyses and determined the specific gravity. The analyses were made on two samples, one from the base of the specimen and another on the measured crystals and other small crystals of similar appearance.

The authors concluded that the antimony is very unevenly distributed in the specimen: 'it is even conceivable that the surface of the crystals may contain no antimony; but however that may be, it is certain that in the crystals here analysed the presence of more than one per cent of antimony has no appreciable effect upon the rhombohedron angle'. Whether this always held good would perhaps be decided, they suggested, by the examination of a large number of specimens, a task on which the authors were then engaged.

The completion of this task resulted in the great paper modestly entitled 'Contributions to the study of pyrargyrite and proustite' (Miers & Prior, 1888). It was on similar lines to the bournonite paper but there were now two related species to consider and a vast number of measurements of angles and forms recorded in the published papers by earlier authors and by Miers himself. Summarizing their results, they show that proustite and pyrargyrite are two distinct species with sufficient differences in the rhombohedron angle, specific gravity, colour and streak, to enable them to be distinguished. Pyrargyrite is shown to be hemimorphic and proustite probably so. Both species are strictly rhombohedral: 'no typical forms occur in both the direct and inverse positions'. Typical forms are defined as those which occur as bright, independent faces. Miers gives lists of typical forms for each of the two species: there are 36 for pyrargyrite and only 12 for proustite; of these 8 are common to both species. Some of the typical forms have rather high indices; in pyrargyrite there are six with one or more indices higher than 8; in proustite only one (13.2.3). Twin growths are studied very closely and the laws stated; there are five twin laws of which three operate in both species. The last part of the crystallographic study is devoted to measurements of striated (and curved) zones and of vicinal faces, and the distribution of the vicinal faces is discussed.

Prior made very careful analyses of fifteen selected specimens, and determined the specific gravity of each. For the analysed specimens the rhombohedral angle also is recorded and it is concluded that 'the variations in the rhombohedral angle among the whole series of pyrargyrites analysed fall within the irregular variations on individual specimens, and cannot be attributed to the presence of varying quantities of arsenic; the same is true of proustite containing antimony'. And further: 'no certain connection can be traced between the presence of arsenic in pyrargyrite and the habit or appearance of the crystals; specimens of identical appearance sometimes contain a small percentage of arsenic and are sometimes free from it; and some pyrargyrite of rather light colour is found to contain no arsenic' (Miers & Prior, 1888, pp. 99–100).

The last paper in this series, 'the red silver ores', was 'On xanthoconite and rittingerite, with remarks on the red silvers' (Miers & Prior, 1893). In the meantime Miers had published short papers on polybasite and aikinite (of Chapman) (Miers, 1889*b*), on stephanite, demonstrating its hemimorphism, and kaolinite (Miers, 1890*a*), and on a new mineral, sanguinite, a sulpharsenite of silver (Miers, 1890*b*).

Xanthoconite, 16[Ag_3AsS_3], and rittingerite were believed to be two distinct minerals but neither had been correctly determined in respect of composition, crystal form, or physical characters. Miers made a careful study of both minerals, with the usual careful chemical analyses by Prior, which showed that the two minerals have the same composition as far as could be ascertained with the limited material available. A complete analysis of rittingerite was not possible but silver was determined quantitatively on 3.8 mg and found to be practically identical with the silver content of xanthoconite.

In the complete series of the red silvers the rhombohedral pair proustite and pyrargyrite correspond to xanthoconite and fireblende (pyrostilpnite), which are monoclinic. Fireblende was the only member of the series of which material was not available in the Museum collection for as thorough an examination as had been made of the other members, but the data provided by Luedecke (1882) were available. Miers observed 'that these two minerals, xanthoconite and pyrostilpnite, present a very interesting example of isomorphism in the same system with different orientation. They both crystallize in rhombic-shaped plates, having an angle of 54°, and belonging to the monosymmetric system: but whereas in xanthoconite the plane of symmetry is perpendicular to the plate and parallel to its longer diagonal, in fireblende it is parallel to the plane of the plate'. These findings are confirmed by a much more recent study of the two minerals, with X-ray measurements, by the late M. A. Peacock (1950).

It is interesting to note that for the determination of the optical properties of xanthoconite Miers constructed a stage goniometer for the microscope; it was later manufactured by Troughton & Simms. During this period and outside his official Museum duties, Miers was an instructor in crystallography in the chemical department of the City & Guilds College, where he developed a student's goniometer for use in his classes (Miers, 1891*b*).

Miers' study of the vicinal faces in proustite and pyrargyrite aroused his interest in crystal growth and, about 1892, he commenced a systematic study of the formation of crystal faces, working at home and at night. A preliminary report on this work was made in a paper read to Section C (Geology) of the British Association at its meeting at Oxford (Miers, 1894*b*); all the later work was carried out at Oxford where Miers had been appointed Waynflete Professor of Mineralogy in 1895. The main results were presented to the Royal Society (Miers, 1903) but work on crystal growth and related problems (parallel growths and spontaneous crystallizations) was continued at Oxford for several years in conjunction with his students: Miss Florence Isaacs, T. V. Barker, and J. Chevalier.

The paper read in 1894 was entitled 'A new method of measuring crystals and its application to the measurement of the octahedral angle of potash alum and ammonium alum'. The alums were known to show large variations in the octahedron angle, and it was also known that the octahedron was often replaced by vicinal faces. Miers set out to ascertain 'whether progressive variations can be traced during growth of a single crystal, and whether some or all of the octahedron faces change their character in space if the crystal be held fixed during growth'.

To test these questions Miers designed an inverted goniometer with which he could measure with great accuracy the faces in an octahedron zone while the alum crystal, fixed on a crystal holder, was actually growing in a saturated solution of its own composition. The solution was contained in a glass tank provided with parallel plate-glass sides. The tank could be raised or lowered as required so that the crystal could be completely immersed in the solution while it was being measured.

In order to determine the positions of the vicinal faces in relation to the octahedral face which they are replacing he designed a micrometer eyepiece which could be fitted to the telescope of the goniometer. Thus, when an eyepiece of sufficient strength showed that what appeared to be a single image was in reality three over-lapping images formed by vicinal faces, the micrometer eyepiece enabled the positions of each of the three vicinal faces to be established. From the mutual inclinations of the vicinal faces it was possible to calculate accurately the octahedron angle of the alum crystal; it was found to be 70° 31¾′, and not to be subject to variation as had been supposed from measurements made by the earlier worker, Reinhard Brauns, and others.

Miers also showed that the growth of the crystal does not take place by the deposition of parallel plane layers but that new (vicinal) faces are constantly developed. Moreover, the vicinal faces developed vary with the concentration of the solution in which they are grown and thus give rise to variations in the measured angles observed and hitherto considered as anomalous. Miers foresaw that 'a further study of the faces developed during the growth of crystals will . . . lead to a better understanding of the reasons why a simple face like the octahedron should not be a surface of equilibrium, and of the relations between the vicinal planes and the structure of the crystal'.

The full results of this work on the growth of alums and of other cubic crystals were published by the Royal Society (Miers, 1903). In the conclusions it is pointed out that the faces which actually occur on a crystal are not those with simple indices, like (111), which have great reticular density of 'particles', but those with complex indices, like vicinal faces, which have very low reticular density and that this is perhaps connected with the need for 'particles' of the water of solution to be able to escape from the growing crystal face.

Thomas Davies, who had been on the staff since 1857, the year of Story-Maskelyne's appointment as Keeper, died in 1892. The vacancy thus caused was not filled until 1 January 1894, when Leonard James Spencer was appointed as an Assistant.

Spencer was highly qualified as a mineralogist and chemist. From Bradford, at the age of sixteen he had obtained a Royal Exhibition to the Royal College of Science, Dublin, gaining first class honours in chemistry in 1889. Proceeding then to Sidney Sussex College, Cambridge, he took Firsts in both parts of the Natural Sciences Tripos, taking geology for Part II and winning the Harkness Scholarship in 1893. The examination for the vacancy in the Department of Mineralogy was held that summer and Spencer was the successful candidate, the runner-up being (Sir) William J. Pope, later to become Professor of Chemistry at Cambridge.

At the Keeper's request—was it nearly a command?—Spencer went to Munich to study for three months under Professors Paul Groth and Weinschenk. This he did at his own expense, in fact using the Harkness Scholarship money for the purpose. This study in Germany, undoubtedly very valuable, delayed his actual appointment by some three months and may have affected his position in later years when it came to promotion to First Class Assistant.

Spencer began his part of the work on the Crystallographic Catalogue on the sulpharsenates and sulphantimonates and in a little over a year, on 2 April 1895, he read a paper on enargite

$2[Cu_3AsS_4]$ (Spencer, 1895). This was drawn up on the lines of Miers' bournonite paper: a listing of the previous literature; a list of known forms; measurements establishing new forms; very careful, critical measurements of the prism angle, and of the angle (001):(011) from which the parameters were calculated; twinning, establishing (320) as the twin plane; and, then, a description of the mineral clarite, proving its identity with enargite, and a discussion of the several other minerals similar in composition to enargite. These are luzonite, which Spencer showed might be a massive form of binnite, and regnolite, which he thought might also be referred to binnite. The name regnolite is now regarded as a synonym of tennantite, and binnite a variety of the same mineral.

This work on binnite initiated close collaboration with Prior on binnite, tennantite, tetrahedrite and the fahlerz (Prior & Spencer, 1899). In this paper the crystallography of binnite was based on the examination of about 60 specimens obtained as a result of blasting operations in the Binnenthal, and mostly supplied by R. H. Solly. Goniometric measurements were made on 24 crystals and nearly as many fragments of crystals, and Prior analysed eleven of the measured crystals.Together these studies proved the identity of the binnite (of Des Cloizeaux) from Binn with the Cornish tennantite and established the formula as Cu_3AsS_3. A partial analysis on two crystals which showed a black streak instead of the usual chestnut brown gave Ag 4.77%, Fe 3.68%.

The second part of this paper, read on 20 June 1899, on the composition of the fahlerz gave an introduction to previous literature followed by the results of analyses of three crystals chosen very carefully for purity. For each of these crystals the crystallography, physical characters, and mineral associations were described. Their compositions were shown to agree with the formula $3[(Cu,Ag)_2S(Sb,As)_2S_3]$ and an important suggestion was made as to the role of the small amounts of sulphides of iron and zinc in the constitution (op. cit; p. 203). Finally the new formula was tested by reference to the results of eighteen previous analyses of minerals variously named as tetrahedrite (Rose, 1829), coppite (Bechi, 1863; D'Achiardi, 1873), aphthonite (Nilson, 1877), fahlerz, and tennantite.

The fruitful collaboration between Spencer and Prior continued, Prior supplying the chemical analyses for a series of joint papers. Between 1897 and 1899 three more papers were published on the sulphantimonites of lead and silver: zinckenite and wolfsbergite from Wolfsberg in the Harz (Spencer, 1897*b*); plagionite, stephanite, enargite, and anglesite (Spencer, 1897*c*); and plagionite, heteromorphite, and semseyite (Spencer, 1899). The last of these contained important suggestions on the structural formula and on the explanation of the imperfect crystal forms found in intermediate members of the plagionite-semseyite group.

After this, except for a note on 'feather-ore' (Spencer, 1907*a*) (see p. 57) attention was turned to the many other interesting minerals which were reaching the Department from various famous mining districts, largely through the good offices of the mining men whom Prior and Spencer had interested in the Collections. This work resulted in a succession of papers between November 1897 and April 1909.

The first of these was a short paper on augelite from a new locality in Bolivia in which he recorded more accurate crystal measurements, refractive indices, and specific gravities than hitherto (Spencer, 1898*a*; see also Prior & Spencer, 1895). A paper followed on crystallized stannite from Bolivia, based on specimens collected by Sir Martin Conway (Spencer, 1901*a*); crystals of this mineral had not been described previously. Spencer succeeded in measuring some twelve of them, and he figured and described elegant interpenetrant pseudo-cubic twins, pointing out the close correspondence between the crystallographic characters of stannite and chalcopyrite. This is the more interesting as Prior's analyses, the first ever made on crystallized stannite, showed that the formula could be written as $Cu_4SnS_4 + Fe_2SnS_4$, representing an orthostannate, or as $CuFeS_2 + CuSnS_2$, showing a possible relation with chalcopyrite, $CuFeS_2$. The formula accepted by Hey (1950) is $2[Cu_2FeSnS_4]$, chalcopyrite being $4[CuFeS_2]$.

Spencer kept up his work on minerals from Bolivia for several years and in 1907 he published 'Notes on some Bolivian minerals' with chemical analyses by G. T. Prior (Spencer, 1907*b*). These notes were arranged under seventeen headings describing different species. Semseyite was recorded for the first time from Bolivia and an analysis provided by Prior. Also published for the first time was an analysis made in 1897 of measured crystals of jamesonite. Crystals of andorite showing new crystal forms were described and the systematic position of this mineral discussed. One interesting relationship brought to notice is that for the series andorite, diaphorite, freieslebenite, it is shown that writing the composition for this series as $n\mathrm{RS} \,.\, \mathrm{Sb_2S_3}$, an increase in n, 1, 2, $2\frac{1}{2}$, is accompanied by an increase in the length of the c axis, comparable to the relationship shown in the humite, chondrodite, clinohumite series.

Other minerals described are: chalcostibite, augelite, vivianite, tetrahedrite, valentinite, cassiterite, tourmaline (frequently overlooked in Bolivian mines on account of its unusual pale green colour), fluorite, apatite, miargyrite, jarosite, chalybite, and enargite. The tetrahedrite is found in two distinct habits; one tetrahedral, steel-grey and usually twinned; the other iron-black, and resembling tennantite ('binnite') from the Binnenthal. An interesting find is a tetrahedral crystal on the faces of which pseudo-cubic crystals of stannite are in parallel growth. Crystals of valentinite, carefully detached from the specimens, were measured both by Spencer and by Herbert Smith, who also determined the refractive indices, whilst Prior made an analysis on pure, crystallized material which confirmed the accepted formula, Sb_2O_3.

Another famous mine which provided material for several papers was Broken Hill, New South Wales. The rare minerals marshite, miersite, and iodyrite from this mine were described in 1898 (Spencer, 1898*b*). Crystals of CuI had been discovered by C. W. Marsh in 1892 and named marshite by Professor A. Liversidge later in the same year (Liversidge, 1892); miersite, 'a cubic tetrahedral modification of AgI containing some CuI, isomorphous with marshite', had been described by Spencer (1898*b*). He had now available better crystallized material of both minerals, of which he described the crystallographic and physical characters, and for miersite, the interesting changes undergone on heating. Changes on heating were also described for cleavage plates of the silver iodide, iodyrite, and for this mineral two types of crystal are described: hexagonal plates or short prisms and also pseudo-cubic crystals consisting of four rhombohedral crystals in twin relationship. These 'are in fact mimetic crystals of iodyrite with the same external form as miersite and marshite'. The paper concludes with a thoughtful discussion of the mutual relations of the three minerals (Spencer, 1901*b*). Finally, analyses of both miersite and marshite made by Prior on carefully selected material were published a year later (Prior, 1902). They confirmed the compositions $4\mathrm{AgI} \,.\, \mathrm{CuI}$ and CuI which Spencer had deduced from his qualitative tests.

Other papers published by Prior and Spencer concerned stanniferous argyrodite from Bolivia and the identity of the so-called 'crystallised brongniardite' with argyrodite-canfieldite (Prior & Spencer, 1898); the identity of andorite, sundtite and webnerite (Prior & Spencer, 1897); and the cerargyrite group and iodembolite (Prior & Spencer, 1902).

Prior also made analyses of minerals for Dr E. Hussak of the Geological Survey of Sao Paulo, Brazil, for Dr F. Zambonini of the University of Naples, and for Dr A. K. Coomáraswámy.

In five papers in collaboration with Prior, Dr Hussak described five new minerals from Brazil: lewisite, a titano-antimonate of calcium and iron related both to perovskite and to the calcium antimonates, atopite and roméite (Hussak & Prior, 1895); derbylite, an antimonate of iron (Hussak & Prior, 1896); and tripuhyite, another new antimonate of iron (Hussak & Prior, 1897). All these three minerals were found in gravels at the cinnabar mine of Tripuhy, near Ouro Preto, but the country rock is muscovite schist associated with itabirite. Zirkelite was found associated with baddeleyite and perovskite in the magnetite pyroxenite of Jacupiranga, Sao Paulo. A complete quantitative analysis made on additional material collected by Hussak proved the presence of thorium, cerium, and uranium along with the titanium and zirconium revealed by Prior's earlier analysis. The formula suggested was $R\mathrm{O}\,(\mathrm{Zr,Ti,Th})\mathrm{O_2}$ where R represents Ca and Fe (Hussak & Prior, 1895; Prior, 1897). Senaite, found as rough, rhombohedral crystals in the sand of Diamantina, Minas Gerais, was shown to have a composition near $(\mathrm{Fe,Pb})\mathrm{O} \,.\, 2(\mathrm{Ti,Mn})\mathrm{O_2}$ with PbO 10.5% (Hussak & Prior, 1898). M. H. Hey, however, regards it as a possible variety of ilmenite with the formula $(\mathrm{Fe,Mn,Pb})\mathrm{TiO_3}$ (?) (pers. comm., 1976).

A much more interesting mineral described in 1899 is 'florencite, a hydrated phosphate of aluminium and cerium earths' (Hussak & Prior, 1900). This mineral was found at three localities in Brazil: in the cinnabar-bearing gravels at Tripuhy associated with xenotime and monazite, and lewisite and derbylite; in diamond-bearing sand near Diamantina; and from another locality at which the yellow topaz is found, near Ouro Preto. At this last locality the florencite is a microscopic constituent of micaceous schists. That the mineral was a phosphate of cerium earths was shown by Dr W. Florence, after whom the mineral is named. He had suggested that the new mineral had a close relationship with hamlinite; this was confirmed by Prior in a paper read six months later (Hussak & Prior, 1900). After reviewing analyses of this group of minerals—and giving a caution against over-estimation of the exactness of mineral analyses when calculating formulae—he suggests that the five minerals listed in the title form a natural group of rhombohedral minerals:

Hamlinite	$2SrO . 3Al_2O_3 . 2P_2O_5 . 7HO.$
Svanbergite	$2SrO . 3Al_2O_3 . P_2O_5 . 2SO_3 . 6H_2O.$
Plumbogummite	$2PbO . 3Al_2O_3 . 2P_2O_5 . 7H_2O.$
Beudantite	$2PbO . 3Fe_2O_3 . P_2O_5 . 2SO_3 . 6H_2O.$
Florencite	$Ce_2O_3 . 3Al_2O_3 . 2P_2O_5 . 6H_2O.$

In a later paper on the connection between the molecular volume and chemical composition of some crystallographically similar minerals, Prior used the hamlinite-florencite-beudantite-alunite group as an example, and gave a long list of further examples. He showed how this connection between molecular volume and composition can be used to suggest appropriate formulae. Thus, rutile $2(TiO_2)$ written as Ti_2O_4 or $TiTiO_4$ brings it into correspondence with $ZrSiO_4$, and the molecular volumes of the two minerals would be 38 and 39, respectively (Prior, 1903*a*).

Strüverite had been described as a new mineral in 1907 by Dr F. Zambonini, who had shown it to contain niobium and tantalum, with titanic oxide, iron oxide, and traces of manganese. Prior studied the known difficulties of separation of niobic, tantalic, and titanic acids and went to great pains to improve the technique. He established the composition of strüverite, and also made two analyses of ilmenorutile and discussed the close relationship between the two minerals (Prior & Zambonini, 1908). Another paper with Zambonini was 'On the identity of guarinite with hiortdahlite'. Zambonini described the crystallography of the two minerals and reviewed published analyses, etc, concluding that the two were identical; Prior's analysis of guarinite confirmed this (Zambonini & Prior, 1909). This conclusion was substantiated later, though the two minerals are now regarded as separate species, clino- and orthoguaranite (Cesàro, 1932).

Prior also collaborated with Dr A. K. Coomaraswamy in his description of the new mineral, serendibite, found as small blue grains at a granulite-limestone contact in Ceylon. Prior's analysis showed it to be a borosilicate of alumina, magnesia, and lime (Prior & Coomaraswamy, 1903). It has since been discovered in metamorphic limestone in Warren Co., New York. An analysis by Larsen and Schaller (1932) included a quantitative determination of B_2O_3 which Prior had been unable to make on the very small amount of material—0.57 g altogether—available to him.

Prior's independent papers in order of publication are: 'note on connellite from a new locality', describing a specimen from Namaqualand given to Tom Davies in 1861 and presented by him to the Museum in 1887 (Prior, 1889); 'on zinc sulphide replacing stibnite and orpiment . . .': this paper described material from Felsöbánya and also contained analyses of stephanite from Copiapo and from Cornwall, and of polybasite from Mexico. Miers contributed a list of forms identified on the Cornish stephanite (Prior, 1890); and a paper on fergusonite from Ceylon giving two analyses of a pebble from the same group as that in which Fletcher discovered the new mineral baddeleyite (p. 49). These again involved the determination of niobium and tantalum, and uranium, yttrium and erbium. They showed more uranium than Rammelsberg's earlier analysis of fergusonite from Ytterby. Prior described the remarkable bright red glow which appears when a small splinter of the mineral is heated to redness; a phenomenon also exhibited by gadolinite (Prior, 1893).

Prior's (1897) paper on zirkelite, read in 1896, has been referred to above. A short paper on 'sphaerostilbite' showed the specimens so labelled in the Museum collection to be thomsonite (Prior, 1898). Another paper brought together notes on 'Minerals from Swaziland', collected and presented by Mr Sidney Ryan from the Embabaan district. The most important is of a specimen which analysis showed to be related to euxenite but which in crystal habit resembles the 'aeschynite' from Hitterö described by Brögger (Prior, 1899). This mineral was later named priorite by Brögger (1906, pp. 110–116).

A paper read in 1902 collected notes on analyses of several minerals. An analysis of 'kilbrickenite' from Kilbricken mine, Co. Clare, showed it to be identical with geocronite; also included were new analyses of carefully selected examples of the minerals miersite and marshite from Broken Hill, N.S.W., described by Spencer (1898*b*); and an analysis of chalcopyrite of apparently cubic habit (Prior, 1902).

A new mineral, teallite, was discovered as thin, graphite-like folia in kaolin in specimens from Bolivia forming part of the Hohmann Collection of South American minerals (see *Mineralog. Mag.* **13***: 382*). Prior's analysis showed it to be a sulpho-stannite of lead, $2[PbSnS_2]$. Prior measured the crystals himself using Herbert Smith's newly constructed three-circle goniometer, which must have been quite exciting. He realised that there might be a relationship between this new material, and franckeite and cylindrite from Bolivia, both being known to contain lead, sulphur, and tin. Prior demonstrated the relationship by making complete analyses of both minerals (Prior, 1904).

In another short paper he established the formula of dundasite from North Wales as $PbO . Al_2O_3 . 2CO_2 . 4H_2O$. (Prior, 1905*b*). This mineral, found on cerussite by Mr G. J. Williams, was new to Britain. Prior's last paper in this long series, recording his numerous analyses published either independently or in collaboration with others, brings together three more analyses of minerals from the Binn valley, all collected by R. H. Solly. They are of seligmannite, 'binnite', and a green muscovite (fuchsite). The analysis of seligmannite, the first complete quantitative analysis of this mineral, confirmed Baumhauer's suggestion, based on its crystallographic characters, that it would prove to be isomorphous with bournonite. The 'binnite' analysis showed this specimen, 'a large cubic crystal with faces 15 mm across', to be tennantite containing a large proportion of zinc (7.76%). The paper was read to the Mineralogical Society in June 1908 (Prior, 1910).

In addition to his work in the chemical laboratory Prior, in common with Spencer, had work to do in keeping up-to-date the hand-written registers of acquisitions to the collections and in addition had taken over from Thomas Davies the care of the collection of rocks. In this connection he had himself contributed important papers (published between 1897 and 1903) on the petrography of some of the early collections of rocks, notably from the Antarctic, Abyssinia and East Africa, and several of the Atlantic islands.

His review of the volcanic rocks of East Africa and the Atlantic Islands showed their relationship to those of the Auvergne, the Eifel, the Bohemian Mittelgebirge, and especially the rocks of Pantelleria, and he came to the conclusion that 'of the four great volcanic chains running north to south, the great Atlantic chain with its European branches, and the minor chain along the east coast of Africa, including Madagascar, are characterized by the association of basalts and alkali-rich phonolitic rocks, whereas in the two other great Pacific-chains . . . andesites are the prevailing lavas'. Thus he was making, in 1902, perhaps the first suggestion of what later came to be spoken of as the Atlantic and Pacific Provinces of igneous rocks (Prior, 1903*b*).

His last petrological contribution described the alkali lavas of Mt Nimrud, on the west side of Lake Van, from an early collection made by Dr Felix Oswald (1905), showing that they were similar to some of the lavas of the East African Rift Valley. He made chemical analyses of three of these rocks to confirm this point, and noted that Oswald had remarked that Mt Nimrud is 'on the great line of fracture which cuts across the Armenian folds and extends through the Red Sea to the East African Rift Valley . . .' (Prior, 1928).

During this period Spencer turned his attention to the study of tellurides from Australia. The specimens had been presented to the Museum at various times since 1897 and much of the material had formed part of the collection specially prepared for the Paris Exhibition of 1900 and later shown at the Colonial Exhibition in London in 1902. The minerals described were: calaverite, sylvanite, petzite, coloradoite, altaite, and the minerals now known to be mixtures, 'kalgoorlite' and 'coolgardite'. Brief descriptions were given of the associated minerals and the paper was read in June 1902 (Spencer, 1903*a*).

Several short papers by Spencer were published between 1903 and 1908, on crystalline forms of carbides and silicides of iron and manganese (Spencer, 1903*b*); irregularly developed crystals of zircon (sp. gr. 4.0) from Ceylon (Spencer, 1904); phenakite and other minerals from German East Africa (Spencer, 1906)—a note on 'feather ore' [Federerz]; identity of domingite (= 'warrenite') with jamesonite (Spencer, 1907*a*)—and, with H. J. Johnston-Lavis, on chloromanganokalite, a new Vesuvian mineral. To this Spencer contributed data on the crystallographic and optical characters, and notes on some associated minerals (Johnston-Lavis & Spencer, 1908).

In the paper on zircon crystals Spencer (1904) described the peculiar optical properties of the crystals, the variations and changes in specific gravity, and the change of optical properties on heating from dark brown uniaxial positive to grass-green biaxial. He quoted A. H. Church and S. Stevanović on the suggestion that in one of the varieties of zircon there may be, instead of zirconium, another, closely related element. The paper on phenakite, besides noting the large size of the crystal (about 1.5 × 1 cm) also mentions sheets of muscovite measuring 19 × 12 cm when trimmed; they were first described by Bornhardt (1900).

The note on 'feather-ore' (1907*a*) reviewed the accounts of the various minerals which had been identified as 'Federerz' and showed that several quite different minerals were involved. One of these might be stibnite but most 'feather-ores' contain lead, antimony, and sulphur. The minerals are of two kinds: one is 'brittle', with a cleavage perpendicular to the fibres (jamesonite); the other is flexible and may be one of at least four different minerals. It was not possible to identify such tiny fibres because fibres of more than one kind may be intermingled. These flexible 'feather-ores' may be grouped, Spencer considered, in a 'natural history group to which the name plumosite may conveniently be applied'. They must be removed from jamesonite. In the course of the discussion it is shown that 'domingite' from Colorado (= warrenite) is identical with jamesonite.

Another important paper by Spencer was written on a group of zinc phosphate minerals found in cavities and caves in low hills, 'kopjes 1 and 2', then recently discovered in the neighbourhood of deposits of lead and zinc ores at Broken Hill, Zimbabwe. These kopjes are now famous for the discoveries made there of bone-breccias and the remains of early man, including the Rhodesian skull (Spencer, 1908). The material in which the crystallized zinc phosphates were found was sent to the Museum by Mr Percy C. Tarbutt, and other material was made available by the British South Africa Company. Altogether fifteen different species are recorded: of these the most interesting is hopeite, a mineral only once discovered previously. It was first described and named by Sir David Brewster (1823) from a specimen from a zinc mine at Altenberg, near Aachen. Spencer, describing the crystals now available, showed that there are two modifications, α-hopeite and β-hopeite, identical in composition but differing markedly in optical characters and the rates at which water is lost on heating. The composition is $Zn_2P_2O_8 . 4H_2O$, as determined by Spencer's analyses. He also described two new minerals: parahopeite, identical with hopeite in composition but distinct in symmetry and optical characters; and tarbuttite, $Zn_3P_2O_8 . Zn(OH)_2$, a basic zinc phosphate. Also described are large crystals and massive specimens of descloizite, vanadinite, and pyromorphite; also hemimorphite and calamine, hydrozincite, and cerussite, the last forming beautiful, large, splendent crystals. All these are now well represented in the Museum and doubtless also in most good mineral collections. Spencer and F. N. Ashcroft both visited the locality after the International Geological Congress at Capetown in 1929.

Still another paper on a group of minerals from one mine, this time in England, was 'on the occurrence of alstonite and ullmannite . . . in a barytes-witherite vein at the New Brancepeth Colliery near Durham' (Spencer, 1910*a*). Alstonite had been recorded at only two mines in England and never within the past fifty years. Spencer found some specimens in a dealer's stock and by a piece of detective work traced them to the New Brancepeth baryte vein. The alstonite occurs in acute six-sided pyramids; they are rose-tinged in the mine but quickly lose this colour on exposure. The other very rewarding find in the mine was ullmannite, NiSbS, discovered for the first time in Britain. It occurred in crystals of two habits: cubic and octahedral; it has good cubic cleavage and was found sometimes in parallel growth with galena. Baryte, often in large transparent crystals, and witherite, both as crystals and as nodular masses, are fully described.

In January 1910 Spencer read to the Mineralogical Society a paper on the weight of the Cullinan diamond and on the value of the carat weight. He had been struck by the varying weights reported for this, at that time the biggest known diamond, and he made a thorough examination of the reports and actually checked the weights used in the various offices where the diamond had been weighed. At the same time he reviewed the variations of the carat weight as used in various countries, including the metric carat recently adopted in France (Spencer, 1910*b*). He followed this paper the next year with one recording the weights of the larger diamonds, giving particulars of 26 stones found between 1869 and 1905, when the Cullinan was found, with place and date of find, weight of the rough stone, and the weights of the largest cut stones obtained from each (Spencer, 1911*a*).

It was also in 1910 that Spencer did some important work on orthorhombic crystals from a Cornish tin furnace which C. O. Trechmann had named 'β-tin' in 1879. Analyses by J. H. Collins gave the composition as metallic tin. It had been noticed that crystals of stannous sulphide gave the same parameters as Trechmann's for 'β-tin'. Spencer was able to re-examine the original specimens and showed that Trechmann's crystals contained much sulphur, and were in fact SnS. Collins had taken crystals for analysis from the same specimen but they were of metallic tin and not the same as those measured by Trechmann. Spencer did not publish his work until much later, after Trechmann's death (Spencer, 1921*a*).

In this paper Spencer also gave a description of the orthorhombic SnS, and of the tetragonal iron stannide, $FeSn_2$, and of a rhombohedral tin arsenide, Sn_3As_2. These last two descriptions were the product of work done in collaboration with J. E. Stead on the ternary alloys of Sn–Sb–As (Stead & Spencer, 1919).

In the course of the work on these alloys Stead had observed some remarkable, but microscopic, crystals of one of the alloys in the form of segments of spherical shells and he asked Spencer whether similar forms were known among minerals. Spencer collected what information he could at that time, giving some illustrations of curved forms in crystals found in the Mineral Collection including, for example, helical twist in stibnite crystals (Spencer, 1921*c*). J. E. Stead also supplied crystals from an iron furnace of the iron phosphide (rhabdite), which Spencer described (Spencer, 1916*a*). Rhabdite was discovered in 1864 as a constituent of a meteorite and it had also been prepared artificially. Spencer was able to establish the tetragonal symmetry of these tiny crystals.

In 1907 and during part of 1908 Fletcher was ill and away from the Department. He recovered and in 1909 was appointed Director of the Museum in succession to Sir Ray Lankester, while G. T. Prior became Keeper of Minerals. From 1907 onwards any time that Prior could spare from the administration of the Department was spent in the chemical laboratory, but now all his analytical and petrographic work was devoted to meteorites and their classification (Spencer, 1936). The vacancy caused by Fletcher's appointment as Director and Prior's promotion to Keeper was filled by the appointment as an Assistant, Second Class, of Walter Campbell Smith, who joined the Department on 1 December 1910, the day after his 23rd birthday.

Mention has been made above (p. 54) of help given to Spencer in the measurement of crystals and the determination of refractive indices of valentinite by Herbert Smith, and also of his three-circle goniometer. This was George Frederick Herbert Smith, who had joined the Department soon after the departure of Miers to the Oxford professorship. He was born in 1872 and was less than two years Spencer's junior. His father was headmaster of a boys' school at Five Ways, Birmingham, and later of Doncaster School. He himself was at school at Winchester and went from there, with a scholarship, to New College, Oxford where he took first class honours in Mathematics (1895) and Natural Sciences (Physics) in 1896. Before taking up his appointment at the Museum he was 'persuaded', like Spencer before him, to spend a semester studying mineralogy and crystallography under Groth at Munich, again at his own expense, and with no salary from the Museum. In these days of student grants and post-graduate studentships, this voluntary study abroad at the sacrifice of six months' salary, not to mention postponing the commencement of their Civil Service, seems remarkable.

Herbert Smith's mathematical training was a great help to him in his crystallography, and his knowledge of physics and particularly of optics enabled him to devise improvements in goniometers and to undertake difficult determinations of high value refractive indices. Herbert Smith actually joined the Department in April 1897. He started work on a section of the Crystallographic Catalogue and very early in the course of this work he came across two specimens of atacamite, $4[Cu_2Cl(OH_3)]$, from Sierra Gorda, Chile, bearing very much better crystals than those measured by earlier crystallographers. These he made the subject of his first paper to the Mineralogical Society, read on 1 February 1898 (Herbert Smith, 1898). Using the best-developed faces he determined the axial ratios; studied the etch-figures, confirming thereby the holohedral orthorhombic symmetry of the mineral; determined the refractive indices by the method of minimum deviation on three prisms formed by three pairs of natural faces of the crystals; and showed how to calculate the three principal refractive indices, α, β, and γ, from the measurements obtained (Herbert Smith, 1906*a*). For this work he used a large Fuess goniometer reading to 10 seconds of arc, and for the optic axial angle a Miers microscope-stage goniometer (see p. 51). Several years later Herbert Smith described paratacamite, a new mineral from Sierra Gorda, shown by Prior to have the same empirical formula as atacamite but definitely distinguished from it by its crystal symmetry. The symmetry is pseudo-rhombohedral and the crystals, some of which show a prismatic habit, are invariably twinned. On some specimens the crystals resemble cubes but are actually twinned rhombohedra (Herbert Smith & Prior, 1906). That the two minerals atacamite and paratacamite are distinct was confirmed by Bannister *et al.* (1950), as a result of an X-ray study of these minerals in the collection.

In his second published paper Herbert Smith described several minerals found in the lead slags from the ancient mines at Laurium in Greece. These were laurionite, phosgenite, fiedlerite and a new mineral, paralaurionite. Crystals of each species were measured, forms identified, and axial ratios calculated. Refractive indices were determined using prisms formed by natural faces. Paralaurionite forms monoclinic crystals, tabular parallel to {100}, and almost always twinned, by reason of which it gives a characteristic optic figure in monochromatic light. In measuring these crystals Herbert Smith used a vertical circle goniometer devised by Stöber (1898); (Herbert Smith & Prior, 1899). About two months after this paper had been published there appeared a posthumous paper by Professor Arzruni in which he described by the name rafaëlite a new mineral, an oxychloride of lead, from the San Rafael mine, Chile (Arzruni *et al.*, 1899). Herbert Smith found that the measured angles of rafaëlite were identical with his angles for paralaurionite and concluded that the two minerals were identical (Herbert Smith, 1899*b*).

Herbert Smith's three-circle goniometer has been mentioned previously (p. 58). Two-circle goniometers were already well known and one had been constructed and used by Miller as early as 1874. Herbert Smith attached a third circle to the vertical circle of a two-circle goniometer and this carried an adjustable crystal holder of the usual pattern used on goniometers. By this means, without moving the crystal in the holder, any zone can be brought into adjustment and any face in the zone can be brought parallel to the vertical circle and its position in the zone can be determined. The first instrument was described in April 1899, an improved form was announced in the following year, and the completed instrument was fully described in 1902 (Herbert Smith, 1899*a*, 1901, 1904*a*).

Other instruments preserved in the Department and designed by Herbert Smith include an improved form of hand-held refractometer referred to later (p. 60); a student's goniometer on the Wollaston pattern (Herbert Smith, 1919*b*); and a camera lucida attachment for the horizontal-circle goniometers (Herbert Smith, 1910).

The camera lucida attached to the telescope of the goniometer can be used either for drawing accurate projections of the 'light-figures' obtainable by reflections from imperfectly developed faces or, with the addition of a small lens in front of the eyepiece, for making drawings of the smallest crystals while still positioned for measurement on the crystal holder.

Herbert Smith also designed a protractor for drawing great circles of large radii for stereographic projections on a 10 cm primitive circle. For ruling such curves he used a multiple spring composed of a series of clock springs of suitable length to represent a single spring of variable thickness which is required if circular curves are to be obtained. It is set by a 'pushing piece' actuated by a screw with a scale giving the inclination of the great circle to be drawn (Herbert Smith, 1913*b*).

Several diagrams were prepared to assist in crystal calculation, including a 'moriogram' for 'rapidly determining the angles between a face of symmetry and all other faces with rational indices which lie with it in some particular zone, when two of the angles are known . . .'. This diagram could be used with accuracy for zones in which the principal poles included a right angle (Herbert Smith, 1904*b*). In a later paper Herbert Smith discussed two methods of obtaining the angles and indices in zones of crystals with triclinic symmetry also. One method was a deduction from the properties of the gnomonic projection, the second an extension of the moriogram (Herbert Smith, 1913*a*). He also published two papers on the use of the gnomonic projection in the drawing and calculation of crystals (Herbert Smith, 1903*b*, 1919*a*; Miers, 1887).

Herbert Smith was actively interested in theories of crystal structure and in 1901 assisted William Barlow and Miers in drawing up their report to the British Association on the development of geometrical theories of crystal structure, 1666–1901 (Barlow *et al.*, 1901; Herbert Smith, 1902). This report was being prepared just at the time that Herbert Smith was grappling with the problem of the crystallography of calaverite (see p. 61).

Soon after his appointment to the Museum Herbert Smith became interested in gemstones and the methods used by jewellers to identify them. He designed an improved form of total refractometer, which could be used in the hand for measuring the refractive indices of cut and polished gemstones. An instrument based on similar principles had been designed by E. Bertrand in 1885 and widely used. The chief improvement in Herbert Smith's instrument lay in the introduction of a compensating lens which enabled the shadow edges on the scale to be sharply defined and capable of being focused. The first form of this refractometer was described in 1904 and the much improved model in 1907 (Herbert Smith, 1905, 1907*b*). The scale on the new model gave refractive indices to two places of decimals and the readable range of the refractive indices was increased to 1.770 (0.02 higher than before), enabling it to be used for corundum, which is very important. Observations with this model are made easier by the insertion of a totally-reflecting prism between the two lenses of the eyepiece.

For crystals and gemstones with refractive indices too high for determination on a total reflectometer Herbert Smith published a short paper 'On the method of minimum deviation for the determination of refractive indices', together with a refractive index diagram which in effect solves the well-known formula in terms of the prism angle and the angle of minimum deviation (Herbert Smith, 1906*b*). In a short paper read to the Mineralogical Society in 1907 he described the manufacture of synthetic corundum by the Verneuil process. By goniometric measurements he showed that the lines intersecting at 60° at the broad end of the boules are formed by minute faces of the fundamental rhombohedron of corundum. In the same paper it was announced that a dark blue boule alleged to be synthetic sapphire was in fact a synthetic spinel. This boule had been submitted to Herbert Smith by Mr Edward Hopkins of Hatton Garden, who had noticed that it was not dichroic (Herbert Smith, 1908).

With Mr Hopkins, Herbert Smith took a very active part in the movement initiated by the National Association of Goldsmiths which, about 1912, instituted courses in gemmology for jewellers and issued diplomas to candidates successful in the examinations. Herbert Smith was one of the examiners for these diplomas for many years. The movement resulted in 1931 in the foundation of the Gemmological Association of Great Britain; Herbert Smith was President of the Association from 1942 until his death in 1953. He published a book *Gem stones and their distinctive characters* in 1912. It ran to its fifth edition by 1926 and now, revised and enlarged by Professor F. Coles Phillips and with the shorter title *Gemstones*, is in its 14th edition. He published numerous short papers on gemstones and the methods of identifying them, contributing, for instance, monthly articles to the *Jeweller and Metalworker* from 1925 to 1927.

Herbert Smith wrote several collaborative papers on minerals, the first being an account with Prior on red silver minerals from the Binnenthal, Switzerland (Herbert Smith & Prior, 1907). This dealt with very small crystals of a scarlet or vermilion colour, collected by R. H. Solly from the dolomite of the Lengenbach quarry. Solly had described crystals of several new minerals from this quarry (1903*a*,*b*; 1905), since when he had obtained more material, including some better crystals, and it was this material he now submitted to Herbert Smith. From these crystals Prior picked out just sufficient for quantitative analyses. All three proved to be sulpharsenites of lead and were named by Solly. Hutchinsonite was particularly interesting as it contained up to 25% thallium; this orthorhombic species $(Tl,Pb)_2AgAs_5S_{10}$, has since been discovered at another German locality, a lead-zinc mine near Wiesloch in Baden (Ramdohr, 1953; Seeliger, 1953, 1954), and in much larger crystals at Quiruvilca, Peru. Smithite, named for Herbert Smith, is monoclinic, $AgAsS_2$; and trechmannite, rhombohedral, is probably a sulpharsenite of silver. Herbert Smith, using the three-circle goniometer, completely determined the crystallographic characters of all three minerals and, as far as was then possible, made good observations on their optical characters, refractive indices, and specific gravities. This, apart from a short paper describing small crystals of ilmenite from Jacupiranga collected by Dr Hussak and labelled zirkelite (Herbert Smith, 1907*a*), was his only crystallographic paper until 1910 when, on 7 June, he read a paper before the Mineralogical Society on 'Chabazite and associated minerals from County Antrim' (Herbert Smith *et al*., 1916), which presented the results of a thorough study of the very good specimens collected from quarries on the Antrim coast by F. N. L. Ashcroft and Mr Robert Bell. As a result of his investigations he concluded that the name chabazite should be applied to the whole group (of its varieties) 'and it is convenient to retain the term gmelinite for the apparently hexagonal crystals, and to use the term phacolite in a somewhat widened sense for all the crystals, invariably twinned, of rhombohedral habit, and not merely for those lenticular in shape', as had been the practice. Hey later made gmelinite a distinct species (F. A. Bannister, pers. comm., 1926); that phacolite is a variety of chabazite has been confirmed by X-ray powder photographs (G. F. Claringbull, pers. comm., 1947).

In 1911 Herbert Smith and Prior published two papers on schwartzembergite from the Hohmann collection of South American minerals (Herbert Smith & Prior, 1911*a*); and on fermorite and tilasite from India (Herbert Smith & Prior, 1911*b*). Herbert Smith also investigated the crystal form of nitrogen sulphide (N_4S_4), confirming Artini's determination of its symmetry as monoclinic and obtaining approximate measurements of its refractive indices. In 1913 he contributed crystallographic notes to a paper by G. S. Blake of the Imperial Institute on varieties of zirkelite from Ceylon (Blake & Herbert Smith, 1913).

The crystals of schwartzembergite, from the San Rafael mine, Sierra Gorda, Chile, were shown to be pseudo-tetragonal with very rounded pyramid faces. Measurable reflections were unobtainable and it was on such crystals as these that the device of using a camera lucida to project the 'light-figures' given on reflection of a pin-hole signal was introduced (see p. 59). The optical characters are anomalous, biaxial figures with different orientations in eight sectors of the crystals being observed, whilst the optic axial angles also differ widely in alternate sectors. Prior investigated the chemistry with great care and succeeded in proving that the iodine in this mineral was not present as iodide, as had been supposed, but as iodate, and that schwartzembergite was 'a molecular compound of iodate of lead with an oxychloride having the composition of mendipite, $3(PbCl_2 . 2PbO) . PbI_2O_4$'. He suggested that 'it would seem as if the anomalous morphological and optical characters of the mineral had a direct connection with the abnormal chemical composition', whilst Herbert Smith concluded with the following: 'The curious nature of the morphological characters indicates that in these crystals the intermolecular repulsive forces which prevail in liquids and appear as surface tension are comparable with the intermolecular attractive forces which are responsible for the growth of rigid crystals. Schwartzembergite is therefore one of the links connecting liquid crystals with plane-faced crystals.'

Fermorite, a new mineral discovered by Sir Lewis Fermor in the Sitapar manganese deposit of India, and named after him, was shown by Prior to be, as Fermor suspected, an arsenic analogue of apatite with about 10% SrO, $3[(Ca,Sr)_3(Pb,As)_2O_8 . Ca(OH,F)]$. The other mineral presented to the Museum by Fermor, a pale green arsenate from Kajlidongri, was proved both by Herbert Smith's crystal measurements and by Prior's analysis to be identical with the tilasite from Långban described by H. Sjögren in 1895.

I have left until now any account of the research on which Herbert Smith embarked in November 1900 on the crystallography of the gold telluride, calaverite. The Department had recently acquired a collection of crystals of this mineral from Cripple Creek, Colorado and among them were some unusual, brilliant yellow crystals which Herbert Smith set out to measure with a view to determining whether they were in fact calaverite. He soon came up against a very remarkable and intractable problem (Herbert Smith & Prior, 1901).

Herbert Smith succeeded in measuring 49 crystals of calaverite, many of which showed a great many forms. One, 3.5 × 0.7 mm in cross section, showed 62 terminal faces representing 42 different forms. The determination of the positions of the faces was greatly facilitated by the use of the recently constructed three-circle goniometer (p. 59).

The morphological development of the crystals led to the conclusion that the crystals were monoclinic, but on this occasion it was found that very many of the faces had to be assigned very complex indices. A further study of the zones in which the numerous faces could be plotted on a gnomonic projection showed that many faces had simple indices when referred to a triclinic lattice (T_1), but there still remained many with very complex indices indeed, e.g: (59.20.5), (49.20.5), (39.20.15). However, all but six could be referred to a second triclinic lattice (T_2) and so receive simple indices. Even the remaining six could be given simple indices if referred to a third, monoclinic lattice (M_3). There are two further lattices to be explained by twinning; so, as Herbert Smith wrote, 'we are, therefore, driven to the remarkable conclusion that five distinct lattices may be traced in calaverite, which are incongruent but not independent. The prism zone is common to all.' He added further: 'in the present state of our knowledge we can do little more than conjecture what may be the actual arrangement of the ultimate parts in any particular mineral although we are agreed that it must belong to one of 230 different classes. The case of calaverite is one of peculiar perplexity.'

Herbert Smith worked on this problem for months; in fact in the end he overworked and had to stop for a time. His final conclusion read: 'the only hypothesis . . . remaining appears to be the existence of a minute skeletal structure of some kind—an infinitesimal framework composed of material with an arrangement according to one lattice intercalated with material with an arrangement according to another lattice.' He noted the extremely brittle character of the crystals and considered that this may indicate that there is a facility for parting which is not in the same direction at every point. This would be explained if the crystals are composed of two individuals so intimately intermixed that the separation is not visible to our perceptions. This is in agreement with the hypothesis stated above, and the existence of skeletal and hollow crystals, and of pits on faces, all suggest breaks in continuity of the homogeneous arrangement.

Half a dozen first class crystallographers worked on the unsolved problem of calaverite during the thirty years following the publication of Herbert Smith's paper. None of them arrived at a conclusion satisfactory to themselves and none of the work was published until 1931 when Victor Goldschmidt, Charles Palache, and M. A. Peacock published 'Über Calaverit' (Goldschmidt *et al.*, 1931) summarized in 'Calaverite and the Law of Complication' (Peacock, 1932). These authors had repeated the plotting of 92 forms on a gnomonic projection as Herbert Smith had done, and arrived at similar results, namely, the need to refer the forms to one or other of five different sets of triclinic axes to obtain simple indices. Goldschmidt's Law of Complication is explained in Peacock's paper.

A problem similar to but less baffling than that of calaverite was presented by the crystallography of sartorite, one of the lead sulpharsenides from the Binnenthal quarry of which R. H. Solly, among others, had made a collection before the quarry closed in 1909. Solly had described some of these minerals at various times since 1900 and had exhibited his specimens of sartorite at a meeting of the Mineralogical Society where he read a paper in June 1914.

Some of his crystals showed very small pyramidal planes, uncommon in sartorite, the positions of which could not be determined satisfactorily on a single-circle goniometer and Solly had asked Herbert Smith to measure the crystals on his three-circle goniometer. This he agreed to do, but two months after the meeting at which the first part of their joint paper on sartorite was read the First World War broke out and it was not until 1916 that Herbert Smith had an opportunity to start work on the measurements. The results were given in a paper read to the Mineralogical Society in June 1917 and published in May 1919 (Herbert Smith & Solly, 1919). He also found among these specimens a single crystal of a mineral different from sartorite, and which he was able to measure; there was insufficient to analyse and so it remained unnamed (Herbert Smith, 1920).

The crystals measured were described in great detail. The positions of all the faces were plotted on a gnomonic projection and this showed that, as in calaverite, there are five different networks to which the faces are referable, corresponding to three lattices, I, II, and III, and two more related to two of these three by twinning. Lattice I is monoclinic, II and III are triclinic. Only one crystal had many faces referable to lattice III, and for three of the measured crystals all their faces could be referred to lattices I and II. The three lattices in sartorite were found to be positionally related in such a way that each can be transformed into the adjoining lattice by a shear which, in five different crystals, is 'constant in amount but variable in direction'.

Except for his account of crystals of semseyite found by Sir Arthur Russell at Glendinning in Dumfriesshire (Herbert Smith & Prior, 1919) the work on sartorite was Herbert Smith's last contribution to geometrical crystallography. By the time the War was over he had become very much involved in administrative duties, largely outside the Department. During the War he was very active in the General Reserve—the GR's—to which the older members of the Museum staff contributed a small detachment. Also he was being asked to do more and more in the Museum Office during the absence of the Secretary, Mr C. E. Fagan, who was ill. Eventually, after Mr Fagan's death, Herbert Smith was appointed to succeed him in 1921. Although he returned to the Department as Keeper for the last two years of his service (1935–1937) and made several improvements in the exhibition gallery, he never resumed his researches in mineralogy.

In 1911 the Department was literally smothered by the transfer to it of the collection of foreign rocks and minerals from the hundred years old Geological Society's museum. Campbell Smith was assigned the task of cataloguing these collections and arranging their incorporation into the Rock Collection. Campbell Smith, appointed in 1910 (see p. 58), came from Solihull School and Corpus Christi College, Cambridge, where he had read Crystallography and Mineralogy under Lewis and Hutchinson, and Geology and Petrology under Marr and Harker. Being an enthusiastic mineralogist, it was as such that he hoped to be employed, and he did begin work on some of the silicates in the mineral collection as his part in the work on the 'Crystallographic Catalogue'. He also worked in the chemical laboratory under Prior but, because Prior was now fully occupied with meteorites and departmental administration, it was clear that a petrologist was needed and it was a petrologist that Campbell Smith became.

In the circumstances it is perhaps not surprising that Campbell Smith published nothing of a mineralogical nature before the War except his account of the mineral collection of Thomas Pennant (1726–1798) which had just been presented to the Museum by the Earl of Denbigh (Campbell Smith, 1913). The collection was arranged on the lines of Woodward's classification (1729) and came to the Department in its two original cabinets, accompanied by a two-volume catalogue in Pennant's own hand.

On the return in 1913 of the members of Captain R. F. Scott's *Terra Nova* Antarctic Expedition (Campbell Smith, 1928*b*; Campbell Smith & Game, 1954) it was arranged that the Department should co-operate in the working up of the collections of rocks made by the geologists, and this work also fell to Campbell Smith. Then in 1914 came the First World War, and Campbell Smith enlisted for service with the Artists' Rifles.

After the War he spent a week or so with S. J. Shand at Geneva studying under Marcel Gysin the Fedorov method for determining the optical orientation of feldspars using the three-axis Fedorov microscope stage. Returning from this visit he put the method to use and published a paper on the optical orientation of labradorite from St John's Point, Co. Down, Northern Ireland, using material collected many years before with Professor A. Hutchinson (Hutchinson & Campbell Smith, 1912; Campbell Smith, 1928*a*). Campbell Smith's only other mineralogical publication at this time was a description, with chemical analyses by G. T. Prior, of a compact chlorite from Bernstein in Austria then being marketed in London as 'Styrian jade' (Campbell Smith & Prior, 1924), but he devised, with H. H. Thomas, apparatus to enable facets to be ground at any required angle on crystal plates or prisms (Thomas & Campbell Smith, 1914).

The vacancy caused by Herbert Smith's transfer to the Museum Office was filled by the appointment in June 1922 of Edgar Donald Mountain who, as a scholar of Corpus Christi

College, Cambridge, had taken a First in both parts of the Tripos, and had been awarded the Wiltshire Prize for Mineralogy. Previously he had been at Westminster City School and a scholar at Sutton Valence.

Mountain continued work on the Mineral Collection where Campbell Smith left off, and he also worked in the chemical laboratory, contributing analyses to several of Spencer's later papers, notably those on the lead-copper minerals from the Mendip mines (Spencer & Mountain, 1923) and on two new minerals, schultenite and aramayoite (Spencer & Mountain, 1926*a*,*b*). In 1924 he described the crystallography of calcite crystals from Holywell, Flintshire, collected on a visit to Pennant's country with Campbell Smith during the British Association Meeting at Liverpool in 1923 (Mountain, 1924).

A more important paper involving crystallography, optical data, and chemical analyses was Mountain's account of crystals of 'anorthoclase' from Mount Erebus collected by Frank Debenham on Scott's *Terra Nova* Expedition of 1910. In the same paper he described the somewhat similar crystals from Mount Kenya presented to the Museum in 1900 by J. W. Gregory; discussing the nomenclature of these feldspars he concluded that the Mount Erebus crystals should properly be called potash-oligoclase (Mountain, 1925).

His other mineralogical paper published from the Mineral Department described two fine crystals of smithsonite from Broken Hill, Zimbabwe, acquired in 1921 and 1923. These were much better crystals than those available to Spencer in 1908, which were very small, forming later growths on calamine (i.e; hemimorphite) (Spencer, 1908). The new crystals were simple, clear, colourless rhombohedra, up to 7 mm along the edges. Mountain described the crystal form and measured the refractive indices for five lines of the spectrum, using for this purpose the Tutton monochromatic illuminator. He also made two complete quantitative analyses (Mountain, 1926).

This last paper was read to the Mineralogical Society in March. Unfortunately in that spring Mountain was seriously ill with pneumonia and was advised to live if possible in a warmer climate. Most opportunely a vacancy occurred for a lecturer in mineralogy in the Department of Geology at Rhodes University College, Grahamstown, South Africa: Mountain was appointed to the post and resigned from the Museum in December 1926. After Professor E. H. L. Schwarz's early death in 1928 Mountain was selected as his successor and remained Professor of Geology there until his retirement in 1969.

Spencer continued to be active in the post-war period and papers dating from this time concerned the pleochroism of adamite from Chañarcillo (Spencer, 1914), read to the Mineralogical Society back in 1903; a butterfly twin of gypsum from Girgenti, Sicily (Spencer, 1916*b*); turite (= turgite) and some other iron ores from Nova Scotia, based on a collection presented by Dr Henry S. Poole, some time Inspector of Mines, Nova Scotia (Spencer, 1919); new crystal forms in pyrite, calcite, and epidote, with some brief remarks on the decomposition of pyrite specimens in collections (Spencer, 1920*a*); and fibrolite (= sillimanite) as a gem-stone from Ceylon and Burma, describing in particular specimens from the ruby mines of Mogok presented to the Museum by Mr A. H. Morgan. The crystals being clear and transparent, the opportunity was taken to determine the optical constants, refractive indices, and dispersion, using a single plate with prisms polished on two edges. Some crystals originally brought from Ceylon by S. T. Trelawny as far back as 1812 but presented to the Museum in 1920 by Lt Col. C. F. Catt provided one on which good faces were developed, enabling Spencer to determine the crystal forms and the parameters (Spencer, 1920*b*).

After the War was over and the Department again had its full complement of staff, Spencer spent some of his annual leave in the spring of 1923 on a visit to Somerset to collect from the old lead mine dumps of the Mendips. He had collected there in 1898 and read a paper to the British Association at Bristol on leadhillite from the ancient lead slags. In 1923 he collected specimens of several little-known minerals and discovered two new species, chloroxiphite and diaboleïte. Quantitative analyses of the new minerals and of mendipite, crednerite, and hydrocerussite were made by Mountain (Spencer & Mountain, 1923).

Early in 1924 Spencer published a paper on euclase and platinum from diamond washings in British Guiana in which he described remarkable sheaf-like groupings and lenticular forms of euclase crystals. These were found in concentrates derived from a conglomerate in the Kaietur Gorge of the Potaro River. Spencer also identified as platinum some minute, metallic-looking particles found in the concentrates by Mr J. C. Menzies (Spencer, 1924*a*). This was the first published record of platinum in British Guiana, and was doubted by some, but Spencer confirmed his identification in a second paper announcing the discovery at the same locality of grains believed to be allopalladium (Spencer, 1924*b*). However, the allopalladium proved not to be pure palladium but a distinct compound of palladium and mercury, PdHg. Larger grains of the mineral had been investigated by Sir John Harrison in Georgetown, where he was Director of the Department of Science and Agriculture and where he had been Public Analyst for many years before. He had definitely identified mercury as a constituent of these grains and had obtained good estimates of their quantitative composition. Unfortunately Harrison died early in 1926 before a full account of the work was published; Spencer edited all his notes and published an account of the new mineral, which was named potarite (Spencer, 1928*a*).

Later in 1924 Spencer attended the British Association Meeting in Toronto and visited many museums, mines, and mineral collections both in Canada and the U.S.A. It was on this trip that he saw the fluorescence of willemite being used for detecting the mineral on the washing tables at Franklin Furnace. This led to his setting up a fluorescence exhibit near the entrance to the mineral gallery, which was referred to in his paper on the South African occurrences of willemite (Spencer, 1927*e*) and described in the first volume of the *Natural History Magazine* (Spencer, 1928*b*). Spencer's other papers in 1924 and 1926 were on an inclusion of magnetite in diamond from Bultfontein mine (Spencer, 1924*c*); splendid sperrylite crystals from the Tweefontein mine, presented by the Potgietersrust Platinum Mining Company (Spencer, 1926); and two others describing new minerals. One concerned schultenite, occurring as natural crystals of $PbHAsO_4$ on a specimen labelled 'lanarkite' from Tsumeb, South West Africa (Spencer & Mountain, 1926*a*). The specimen of schultenite was analysed by Mountain as was aramayoite, Ag(BiSb)S, from Potosi, Bolivia, a new mineral described by Spencer at this time (Spencer & Mountain, 1926*b*). This new mineral was made the subject of X-ray examination by Kathleen Yardley, working in Sir William Bragg's laboratory at the Royal Institution. It is probably true to say that this was the first example of a new mineral being examined for, or in, the Department of Mineralogy by X-ray examination. Miss Yardley's paper was read to the Mineralogical Society on 2 November 1926, and at the same meeting her paper on baddeleyite (described by Blake and Herbert Smith, 1907) was also communicated to the Society by Sir William Bragg.

Except for his first contribution to the *Natural History Magazine* describing a beautiful, large, 12 525 carat crystal of aquamarine from Minas Gerais (1927*d*), these papers were the last Spencer published during Prior's Keepership; however one may be allowed to record one other paper, although it was the result of work done mainly, and probably, entirely at home. It was entitled 'Specific gravities of minerals: an index of some recent determinations' (Spencer, 1927*c*). In this he collected 2277 determined values of specific gravities of minerals from the mineralogical literature from 1910 to 1927, using the International Table of Constants, part of which Spencer had for years compiled, and *Mineralogical Abstracts* (1915–1927). These values were listed (*a*) in a mineral index in order of increasing value of specific gravity from 1.03 to 19.0 (18 pages), and (*b*) alphabetically, under minerals, giving minimum and maximum recorded values ($4\frac{1}{2}$ pages). It is a good example of the laborious compilations of which Spencer produced many other examples in the course of his work and for which many mineralogists have since been grateful.

The year 1926 had been a busy time with the celebrations of the Jubilee of the Mineralogical Society bringing many foreign mineralogists to visit the Department.

Mountain's place was filled in July 1927 by the appointment of Frederick Allan Bannister, a scholar of the Whitgift School, Croydon, and a Goldsmiths' Scholar at Clare College, Cambridge. He was a physicist and after leaving Cambridge had worked for some time in the Western Electric Company's laboratory at Southgate. Very soon after he joined the mineral Department he was launched on a part-time course in X-ray analysis methods in Sir William Bragg's laboratory at the Royal Institution and, in 1928, he set up a 'home-made' X-ray tube in a partitioned-off space in the room formerly occupied by Spencer.

Another notable addition to the staff in 1927 was Miss Jessie M. Sweet, who came as a temporary assistant but was later established and became a Senior Experimental Officer. She helped Spencer with the registration and the slip catalogue of the mineral collection (see p. 48). After the Second World War, during which a large part of the collection was sent out of London and the gallery suffered damage after a fire-bomb attack, she re-arranged the whole collection, an enormous task which occupied eight years. For her devoted service she was awarded the M.B.E. in 1961, just before her retirement.

At the end of 1927, actually on 16 December, his 65th birthday, Prior retired as Keeper and Spencer succeeded him. Dr Max Hutchinson Hey, a mathematician, chemist, and crystallographer came in due course to fill Spencer's place. I hope Spencer's work as Keeper, and the research work of Bannister, Hey and Claringbull, and of later members of the staff of the Department, will be recorded some day by one of my successors. After all, the seventy years about which I have written ended fifty years ago.

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The geological researches of Dr Thomas Horsfield in Indonesia 1801–1819

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Synopsis

The American born naturalist, Dr Thomas Horsfield (1773–1859), is best known today as a zoologist, botanist, pharmacologist and ethnologist; but his geological collections were sizeable. He wrote on the chemical analyses of volcanic ash thrown out by the volcano Gunung Guntur in Java in 1803, and published papers on the mineralogy of Java and Bangka. He was a Fellow of the Geological Society of London from 1821 until his death. His greatest achievement in the geological field, however, was the production of a mineralogical map of Java in 1812.

There are no accounts of Horsfield as a geologist. An attempt is made here to describe his geological activities in Indonesia, and catalogue his surviving geological collections from Java, Bangka and Sumatra.

Introduction

Among the early nineteenth century naturalists of Indonesia the name of Dr Thomas Horsfield occupies a high and deservedly honoured place. For eighteen years between 1801 and 1819 he travelled extensively through Java studying its flora, fauna and geology, and making large and heterogeneous natural history collections which he later brought to London. He is perhaps best known today as a zoologist because of his pioneering study, *Zoological researches in Java, and the neighbouring islands* (London, 1821–24), and his work as the first Vice-Secretary of the newly established Zoological Society of London. But in Indonesia his early interests were principally in the fields of botany and geology, and while his contributions in the first of those fields were soon overshadowed by the voluminous and sumptuous publications of Carl Ludwig Blume (1796–1862), his work as a geologist remained unchallenged until the activities of Frans Wilhelm Junghuhn (1809–1864) during the 1830s, 1840s and 1850s put them in the shade. So eclipsed, indeed, were Horsfield's contributions in this field that no proper study has ever been made of

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them. Yet Junghuhn, who was never prodigal in his praise of his predecessors, paid Horsfield the most generous of all tributes when he accorded to him the first place in the investigation and description of Java from a geographical-geological point of view (Junghuhn, 1853–54, **I**:98–99).

Horsfield's origins and scientific career in Indonesia

Thomas Horsfield was born at Bethlehem, Pennsylvania, and was baptized on 12 May 1773, the third son of Timothy Horsfield Jr (d. 1789) and Juliana Sarah Horsfield (*née* Parsons, 1738–1808). His grandfather, Timothy Horsfield Sr (1708–1773) was born in Liverpool, England, and in 1725 emigrated to New York where he settled on Long Island and learned the trade of butcher (McNair, 1942:1). In 1731 he married Mary, daughter of John Doughty, another prominent Long Island butcher, and at about the same time became influenced by Moravian doctrines[1,2]. In 1748

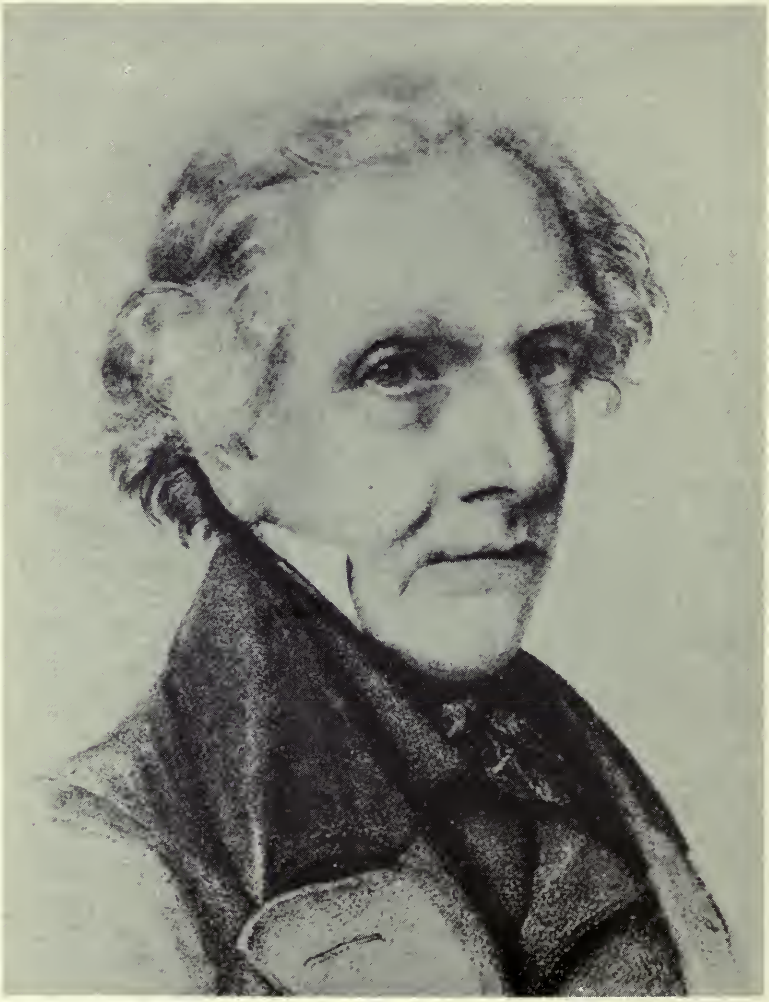

Plate 1 Dr Thomas Horsfield (1773–1859)
Reproduced from an uncoloured lithograph by the Dutch artist and lithographer, J. Erxleben, and printed by Day & Haghe, London. Erxleben was working in Leiden until his departure for England in about 1839. This, and the fact that Day & Haghe subscribe their names on the print as Lithographers to the Queen, points to the lithograph being published during the 1840s, possibly in 1843 to mark Horsfield's seventieth birthday.

he requested permission of the Moravian authorities at Bethlehem, Pennsylvania, to reside there, but because of his involvement in Moravian affairs in New York he was asked to postpone his removal. His children, however, were entered in the Bethlehem schools, and he himself moved there in the following year. He was appointed Justice of the Peace of Northampton County in 1752 and in this capacity was actively involved in the defence of the town during the Seven Years War. In 1763 he was commissioned Colonel of the forces for the defence of the frontiers of Northampton County against Indian raids, but the appointment excited some jealousy and he was obliged to resign his commission and consequently ceased to be Justice of the Peace. Some time afterwards he moved back to Long Island where he and his wife died in 1773 (McNair, 1942:1–2).

Horsfield's father, Timothy Horsfield Jr, must have stayed on in Bethlehem after his parents' return to New York since he married at Philadelphia on 14 October 1766 Juliana Sarah Parsons, daughter of William Parsons, Surveyor-General and founder of Easton, Pennsylvania (Jordan, 1909*b*:345; *cf.* McNair, 1942:2). She gave birth to three sons: Timothy, who died in infancy, William (1770–1845), and in May 1773, at the house in Market Street, Bethlehem (Pl.2), Thomas, the future naturalist of Indonesia (Mr V. H. Nelson, Moravian Archives, Bethlehem; Jordan, 1909*b*:345–46). Timothy Horsfield Jr died on 11 April 1789, his wife surviving him by nearly nineteen years, until 17 January 1808 (Jordan, 1909*b*:345).

Thomas Horsfield attended the Moravian schools at Bethlehem and Nazareth, and at Bethlehem appears to have learned something of the pharmacy of the day under Dr B. Otto (1711–1787) (*Dict. Am. biog.***5** (1):236). His early interests in pharmacy and pharmacology as well as other branches of natural science were developed at the University of Pennsylvania where he may have studied under Benjamin Rush (1745–1813), James Woodhouse (1770–1809) and Dr Benjamin Smith Barton (*cf.* Klickstein, 1953, McNair, 1942:2). Where he gained his knowledge of chemistry is of interest since his later inorganic and analytical chemical activities in Java are discussed below. He graduated in Medicine in 1798 with a thesis entitled *An experimental dissertation on Rhus vernix, Rhus radicans and Rhus glabrum*, being a chemical description of the toxic symptoms of poisoning produced by sumac and poison ivy. A year later he was appointed Physician on the merchantman, *China*, which sailed from the Delaware River on 22 December 1799 and anchored off Batavia (Jakarta) on 15 April 1800 (Horsfield, 1805:75–85). He was so delighted with the abundance and richness of the tropical flora and other natural productions of Java that he resolved to investigate them. He returned to Philadelphia, collected books and a modest array of scientific instruments, and returned to the island in October 1801 (Horsfield *et al.* 1838–52, Postscript:i).

In order to obtain opportunities for travel and research in the natural sciences Horsfield secured appointment as Surgeon in the Netherlands colonial army. He settled initially at Batavia, but due to the unhealthiness of the place he removed to the country shortly after his arrival and carried out explorations in the Priangan Regencies. The eruption of Gunung Guntur (2249*m*) during 6–7 April 1803 turned his attention to volcanology and geology and he obtained permission to make a chemical analysis of the fall-out (Horsfield, 1814*a*). In 1804 he traversed the south-eastern ridges of Gunung Cereme (3078*m*) and visited the hot springs nearby (Horsfield, 1816*a*:41–43). He next proceeded to the south of Sumedang where he first noted the prevalence of limestone in the vicinity of the central mountain ranges of Java (Horsfield, 1816*a*:35–36). In the southern part of the regency of Parakanmuntjang he examined a well whose water, after chemical analysis, he demonstrated to possess many of the properties of European zelzer-water (Horsfield, 1814*d*:1–12). He explored the environs and ascended the eastern side of G. Guntur where he examined the recent lava flows. Thereafter he visited G. Tangkubanprau (2076*m*) and descended the interior walls of the crater (Horsfield, 1816*a*:19–23), collecting samples of water which he later chemically analysed.

On his return journey to Cirebon he made a detour to explore the environs of G. Tampomas (1684*m*) and the northern foothills of G. Cereme, which he had skirted earlier. Travelling along the northern coast of Java, he observed G. Sundara (3135*m*), G. Sumbing (3371*m*) and G. Prau (2565*m*), south-east of Pekalongan, all of which, with the exception of G. Sumbing, he was later to climb. He left Serondol in December 1804 for Ungaran, making a detour to climb G. Ungaran

Plate 2 Horsfield House at 42 W. Market Street, Bethlehem, Pennsylvania. Built in 1749 by Horsfield's grandfather as a family residence, it was later used as a general store and trading place when an addition was erected in 1755. Horsfield was born in the house in May 1773.
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(2050*m*). Close to its summit he examined the remains of an extinct crater in which he found traces of a sulphurous lake similar to those of G. Tangkuban-prau. He also examined on its slopes, and in its immediate surrounds, a number of mineral wells. He proceeded to Salatiga and on to G. Merbabu (3142*m*), which he partly ascended. He then visited Sela, situated on the northern slopes of G. Merapi (2911*m*), the principal volcano of central Java which had erupted with such violence in 1803 that a large portion of the top had collapsed, altering the shape of the mountain. It is unlikely that he climbed to its summit on this occasion, though the matter is confused by a later statement he made on the subject (Horsfield *et al.*, 1838–52, Postscript:ii).

After July 1805 Horsfield journeyed to Jogjakarta (Horsfield *et al.*, 1838–52, Postscript:ii) with the object of investigating the range of hills which run along the southern coast of Java. In August he visited Surakarta and made an excursion to G. Lawu (3265*m*), ascending its eastern side and discovering an extinct crater and another which emitted fumes through apertures in the crust. In October 1805 he proceeded northwards towards Grobogan and Blora with the intention of investigating the salt wells which cover an area of several miles and furnish the Indonesians with mineral and saline waters for medicinal use. He then travelled along the Solo river to Gresik, and on to Surabaya whence he set off on a hurried visit to the Tengger mountains. After climbing G. Bromo (2392*m*) he returned in January 1806 to Surabaya where he remained for three months, meeting during his stay the French naturalist, J. B. L. C. Th. Leschenault de la Tour (1773–1826), one of the naturalists on Baudin's voyage to Australia, who had visited G. Idjen in east Java during September 1805 and the Tengger mountains during November of the same year, thus anticipating Horsfield's visit by a little more than a month (Van Steenis-Kruseman, 1950:321–22).

Horsfield left Surabaya in April 1806 for Prabalingga, making a brief detour to examine the mud wells near Buntidan (Horsfield, *et al.* 1838–52, Postscript:iii–iv). He explored the eastern side of G. Semeru (3676*m*) and although he did not ascend to its peak he climbed along one of its ridges far enough to obtain an external view of its crater (Horsfield, 1814*c*:18–19). At Lumajang he was able to observe G. Lamongan (1600*m*) which was showing signs of activity (Horsfield *et al.*, 1838–52, Postscript:iv). In June he set out for Puger and journeyed northwards towards Jember and the plain bounded on the north-west by the Ijang range of mountains and on the east by G. Raung (3332*m*) (Horsfield, 1814*b*:20). He then proceeded to Bandawasa and on to Panarukan to the east of G. Ringgit (1250*m*) (Horsfield *et al.*, 1838–52, Postscript:iv). From Panarukan he travelled to Banyuwangi where he spent more than two months making local excursions. He ascended G. Merapi (2800*m*) and examined its crater, and at about the same time he crossed the Straits and spent one day in Bali (Horsfield *et al.* 1838–52, Postscript:vi). In October 1806 he set off on the return journey to Pasuruhan, via Panarukan, Besuki and Prabalingga, and again explored the Tengger mountains during December (Horsfield, 1814*c*:30). In January 1807 he visited Malang and Bangil, and after taking profiles of G. Arjuna (3339*m*) and G. Pananggungan (1653*m*), he arrived at Surabaya in early February, where he remained for some time, visiting briefly Madura. Thereafter he journeyed along the coast to Semarang, which he reached in August 1807 (Horsfield *et al.* 1838–52, Postscript: vi).

Horsfield remained in the neighbourhood of Semarang during the rest of 1807 and for most of 1808 before proceeding early in 1809 to Prawata in Demak and on to Surakarta, which became his principal residence during the remainder of his stay in Java. In 1810 he returned to G. Merapi and G. Merbabu which he had partly surveyed five years previously. This time he ascended G. Merapi making a minute examination of its crater. He also investigated the southern ridges of G. Merbabu, and in 1811 the country between the western ridges of G. Lawu and the eastern boundary of Mataram. On 5 June 1811 he witnessed the eruption of G. Kelut (1731*m*) (Horsfield, 1816*a*:23). The capture of Java by the British later that year gave additional stimulus to his researches[3] for he now received the formal patronage of the British Lieutenant-Governor, Thomas Stamford Raffles (1781–1826), who encouraged him to extend his enquiries to all branches of natural history (Lady Raffles, 1830:603). His geological researches bore fruit when, with Raffles' support, he published a series of papers in Volumes VII and VIII of the *Verhandelingen van het Bataviaasch Genootschap der Kunsten en Wetenschappen*, including the important work, 'On the mineralogy of Java' (Horsfield, 1816*a*).

In 1812 Horsfield obtained permission to carry out investigations in west Java and he left Surakarta in September of that year (Horsfield *et al.*, 1838–52, Postscript:vii). In Batavia he was prevailed upon by Raffles to join a Commission which was about to proceed to P. Bangka to enquire into its affairs and resources and he spent some nine months travelling throughout the island and investigating the tin mines worked by Chinese labour (Horsfield, 1848:299–336, 373–427, 705–25, 779–824; Horsfield *et al.*, 1838–52, Postscript:vii–ix). He arrived back in Java in July 1813 and after a brief interlude at Buitenzorg (Bogor) he settled again at Surakarta, where he spent several months preparing his geographical and mineralogical description of Bangka for submission to Raffles. In August of the following year he visited Jogjakarta before proceeding southwards to Karang Bolong and on to Banyumas, returning to Surakarta in early November (Horsfield *et al.*, 1838–52, Postscript:x; Horsfield, 1816*b*:1–48). In mid-1815 he made another trip into eastern Java, visiting Kediri and G. Kelut, which he ascended with a party of Indonesians before returning to Surakarta in November of that year (Horsfield *et al.*, 1838–52, Postscript: xii–xiii). In 1816 he explored the regions of central Java, visiting G. Prau in October, and later G. Merapi.

The same year saw the restitution of Java and its dependencies to the Netherlands, but Horsfield was assured of the continuing protection and support of the new government for his scientific activities. In 1817 he conducted further surveys of the regions around Surakarta, and in the early part of 1818 he visited Bogor in west Java, and Batavia, where he received an invitation from Raffles, now Lieutenant-Governor of Fort Marlborough, to join him in west Sumatra. As a consequence, Horsfield proceeded to Semarang to load his natural history collections on board the *Lady Raffles* (Captain H. Auber), which carried him to Benkulen at the end of June 1818. In the following month he accompanied Raffles and his wife on a journey from Padang to Pagarruyung in central Sumatra (Lady Raffles, 1830:340–65). In August 1818 he returned to Batavia, and travelled through Banten to G. Karang (1778*m*) and on to Cianjur, G. Gede, and through northern Java to Semarang. With his natural history collections on board the *Lady Raffles* he sailed for England in January 1819, arriving at Portsmouth on 12 July of that year.

Horsfield's later years in England

Horsfield was engaged by the Directors of the East India Company[4] to arrange his collections in the Company's Museum in Leadenhall Street, and to act as curator of the Museum under Sir Charles Wilkins (1749–1836), who had responsibility for both it and the Library. Horsfield was paid a fee of one guinea a day for his services, but after Wilkins' death the administration of the Museum and Library was divided and he was placed in full charge of the former on an allowance of £500 per annum (Arberry, 1967:48–49, 57). The work of Keeper of the Museum does not appear to have been arduous (visitors to the Museum being restricted to Fridays), and Horsfield was thus enabled to pursue with minimum interruption his own researches and writing. Between 1821 and 1824 his large quarto work, *Zoological researches in Java, and the neighbouring islands*, was published, and this was followed in 1825 by W. S. Macleay's *Annulosa Javanica*, an account of the insects collected by Horsfield in Java and deposited by him in the East India Company Museum. Horsfield's *Descriptive catalogue* of his collection of Indonesian lepidoptera in the same Museum was published between 1828 and 1829. Later, following the appointment in 1848 of Frederick Moore (1830–1907) as Assistant in the Museum, he produced in collaboration with him comprehensive catalogues of the lepidopterous insects and birds in the Museum (Cowan, 1975:273–84).

Horsfield was elected a Fellow of the Linnean Society of London in 1820 and a Fellow of the Royal Society in 1828. He took an active part in the deliberations of the Zoological Club of the Linnean Society which led to the formation of the Zoological Society of London (Bastin, 1970; Bastin, 1973), and he acted as the first Vice-Secretary of the Zoological Society between 1826 and 1828. He joined the Geological Society of London in 1821 and served on its Council from 1823 to 1826 during the time when the Charter was under negotiation. He was also a member of the Geological Society Club which consisted of members who dined together on meeting days. During the mid-1820s he was living at 6 Castle Street, Holborn, and during the late 1820s and early 1830s at 2 Raymond Buildings, Gray's Inn. From at least 1835 until 1849 (judging by the lists of Fellows of the Geological Society) he was resident at 20 Stonefield Street, Islington, and thereafter at 29 Chalcot Villas, Adelaide Road, Camden Town, where he died on 24 July 1859, aged eighty-seven years. He was buried at the Moravian Church burial ground at Chelsea five days later, and his grave in the western plot of the cemetery still survives[5]. He was a life-long member of the Moravian Church and had been admitted to the London Congregation in Fetter Lane in December 1820 (Diary, volume 22, 1817–28, of the London Moravian Congregation). His obituary notice in the *Proceedings of the Royal Society* (**X** 1860:xxi) describes him as a man 'of retired habits, but of amiable character and unblemished integrity'.

As a naturalist Horsfield's interests were unusually wide. His initial scientific interests in Indonesia were in botany (principally *materia medica*) and geology, but he later broadened the scope of his enquiries to include zoology, entomology and ornithology. These latter fields increasingly engaged his attention and because of his involvement in the affairs of the Zoological Club of the Linnean Society and the newly formed Zoological Society, and also because of his publications on zoological subjects, he became known primarily as a zoologist. He himself recognized the fact though he continued for nearly thirty years to be associated with Robert Brown and J. J. Bennett in the publication of *Plantae Javanicae Rariores* (Horsfield *et al.*, 1838–52). Geology for Horsfield was never a major interest, though he showed himself to be a reasonable observer. His numerous and extensive excursions in Java enabled him to build up a geological

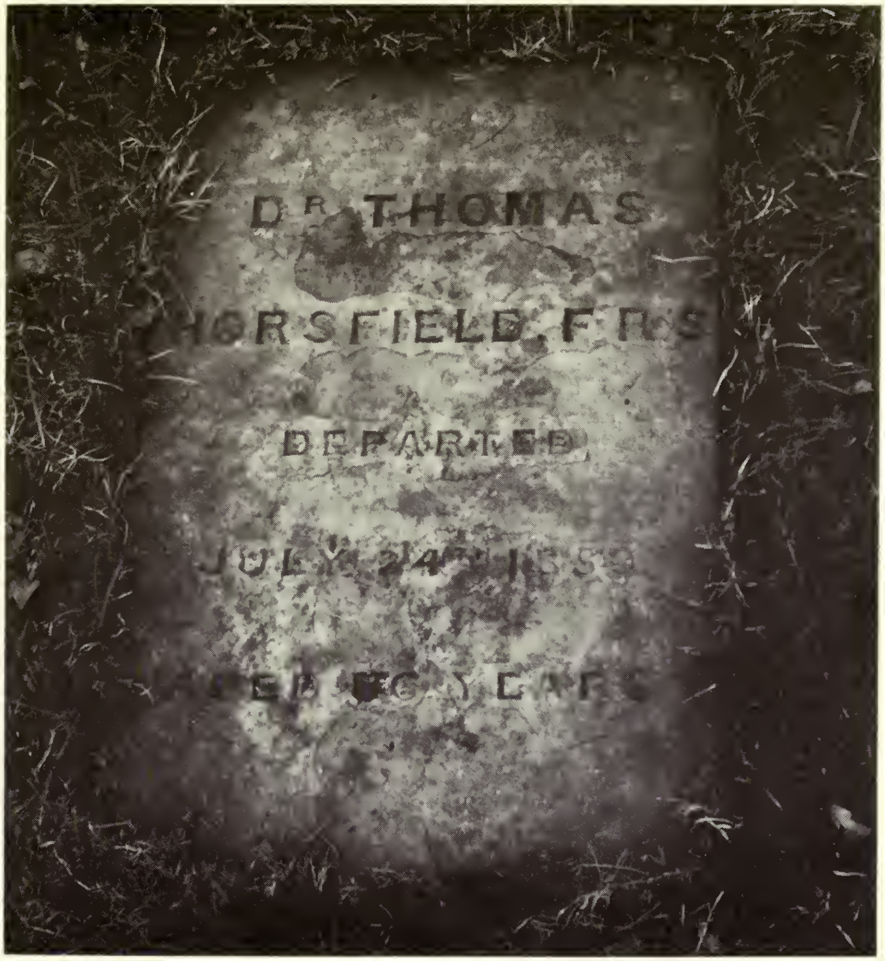

Plate 3 Horsfield's memorial stone in the Moravian Church burial ground at Chelsea, London.

picture of the island which he published in 1816. From his detailed account of the volcanoes of Java he understood that they formed a more or less uninterrupted east-west chain, and he commented on them at some length in his early publications (Horsfield, 1814*b*; Horsfield, 1816*a*; Horsfield, 1816*b*). Limestone ranges, alluvial plains, mud wells, hot springs, and wells of petroleum or naphtha were also commented on. Horsfield never theorized on geological matters, although he was well read on the subject[6], and was aware of Werner's views, and those of the Plutonists. But his greatest achievement was unquestionably the compilation of the mineralogical map of Java and, a similar map of Bangka.

Catalogue of rock specimens collected by Horsfield in Java

Four versions of a catalogue of geological specimens collected in Java by Horsfield exist in the India Office Library and Records, London (*MSS. Eur. F. 53*). Three are in Horsfield's handwriting and the fourth is in that of one of his scribes. We learn from these manuscripts that 366 collecting localities were visited by Horsfield in Java during his eighteen years' stay in the island, though only representatives of localities 1–273 are contained in the collection of his rock specimens in the Department of Mineralogy, British Museum (Natural History). Two manuscript versions of the catalogue of rock specimens made by Horsfield also exist in the Department of

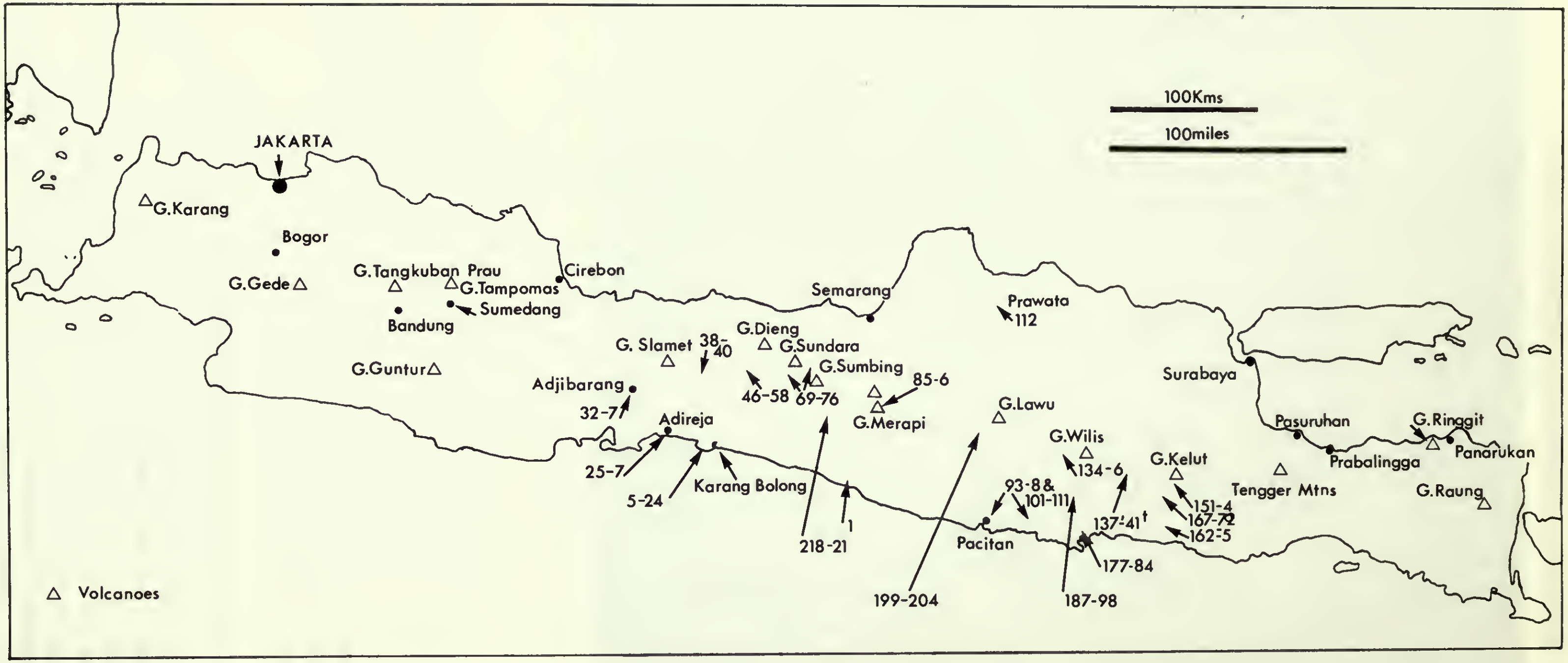
100Kms
100miles
JAKARTA
G.Karang
Bogor
G.Gede
G.Tangkuban Prau
G.Tampomas
Cirebon
Sumedang
Bandung
G.Guntur
Semarang
Prawata
112
G.Dieng
G.Sundara
G.Sumbing
G. Slamet
38-40
Adjibarang
32-77
Adireja
46-58
69-76
85-6
G.Merapi
25-7
5-24
Karang Bolong
218-21
1
G.Lawu
199-204
G.Wilis
134-6
93-8&
101-111
Pacitan
137-41†
187-98
177-84
G.Kelut
151-4
167-72
162-5
Surabaya
Tengger Mtns
Pasuruhan
Prabalingga
G.Ringgit
Panarukan
G.Raung
Volcanoes

Fig. 1 Sketch-map showing the approximate collecting localities (numbered) of Horsfield's surviving geological specimens from Java. For details of specimens see catalogue.

Mineralogy Library, British Museum (Natural History), handed over in 1879 by the India Museum with some 4500 rock specimens collected in India and elsewhere. A part of these catalogues, corresponding with specimens 1–77, was published in 1816 (Horsfield, 1816*b*:156–63). The first and complete version of the catalogue was written by a scribe and signed by Horsfield at Surakarta on 31 May 1816. It lists specimens 1–216. A continuation signed by Horsfield is undated and lists specimens 217–273. The second (incomplete) version of the catalogue, listing specimens 115–207, is also signed by Horsfield and dated Surakarta 8 December 1815. It is addressed and dedicated to Raffles. Specimens 1–77 were collected between August and November 1814, and specimens 78–273 during the same period and beyond to at least 1816.

Unfortunately, none of these catalogues contains information on the dates or circumstances of collection. An edited version of the fullest of the manuscript catalogues in the India Office Library and Records (*MSS. Eur. F. 53*) is given below. The number in the catalogue refers to a locality, not to a specimen, and there may be one or more specimens per locality. The British Museum (Natural history) number is given, together with some petrographic notes, and taxonomic notes in the case of the fossil specimens. Correlation of the specimens and the catalogue is relatively simple as Horsfield's number is attached to the specimens, together with the British Museum number. The latter number was given when the collection was registered at the British Museum (Natural History) probably in 1893, and bears no relation to Horsfield's numbers. The British Museum numbers appear to have been assigned in ignorance of the text of the catalogue. In the version of the catalogue printed below Horsfield's spelling and other idiosyncrasies have been preserved, but certain of his petrographical and geological terms must first be commented on, as their usage conflicts with contemporary practice.

Amygdaloid: an amygdaloidal lava in contemporary usage. See Johanssen (1931–8, **3**:281). Horsfield, however, sometimes uses the term to mean a lumpy or heterogeneous rock, see *Puddingstone.*

Basalt: a basic lava, see Johannsen (1931–38, **3**:246). To Horsfield basalt probably meant a black crystalline fine-grained lava.

Burning volcanoes: a Neptunist concept. The Neptunists believed that volcanoes were the product of burning underground coal seams.

Calcined basalt: The word calcined is used by Aikin and Aikin (1807:177) to mean an oxide, the term being derived from 'calx' of the alchemists. Horsfield uses the term to mean a whitened or weathered rock.

Floetz or *Flötz*: a Neptunist term, approximating in palaeontological terms to Mesozoic.

Greenstone: a metamorphosed basic rock, rich in green minerals, e.g. chlorite and amphibole.

Hornstone: a siliceous rock having a sub-conchoidal fracture (Holmes, 1920).

Lava: an extrusive and fine-grained igneous rock. To the Neptunists lava was a rock distinct from basalt.

Puddingstone: a conglomerate. Horsfield sometimes uses the word amygdaloid in the same sense.

Stone of watery deposition: sedimentary rock.

Trapp or *Trap*: originally a Swedish word, applied to igneous rocks which were neither coarsely crystalline nor fine-grained and volcanic. See Holmes (1920), and Johanssen (1931–38). Horsfield uses the word in the above sense.

Trachyte: The word was first used by R. J. Haüy (1743–1822) in 1822, being derived from Τραχυζ to mean volcanic rock of rough appearance (Johanssen, 1931–38, **3**:67). Horsfield *et al.*, (1838–52 Preface:iii–iv) uses the word in this sense.

Tufa: a calcareous deposit from springwater. Horsfield, however, uses the term to mean tuff, which is a pyroclastic rock.

The history of petrological nomenclature is a study of its own, and space prohibits more than the note above, but Johanssen (1931–38) points out that many of these old names disappeared in the nineteenth century with the introduction of the petrological microscope and thin section making, when the evolution of the contemporary petrological classification based on the mineralogy of rocks began. Further, many of Horsfield's rock specimens are weathered, and not what a contemporary geologist would collect. In the catalogue which follows, weathered specimens have not been sectioned and the catalogue is simply annotated to the effect that the specimen is weathered.

Catalogue of explanatory specimens [this is the title of Horsfield's (1816*b*) printed account, the MS title continues:] ***to illustrate the mineralogy of the territory of the native princes of Java.*** Horsfield's (1816*b*) account lists specimens 1–77 but due to the size of the MS catalogue the printed entries, where the specimens no longer exist in the collection of the British Museum (Natural History), are not listed as reference can be made to Horsfield's publication, where some field notes are also recorded. From 78 onwards all the entries are listed and annotated. See also Fig. 1.

1. *Pebbles from the river Progo* [Praga], *near Brossot* [Brasat]
[Specimen BM 73260, a water-worn pebble of pyroxene-hornblende andeside. Collected in August 1814.]
[Specimens 2–3 missing]
4. *Hornstone-rock from the eminence over Guwo-Duhar* [Guwa Duhar] *called Karang-Kuda*
[BM 73225, limestone. See Horsfield, 1816*b*:94–96.]
5. *Puddingstone from the cavern of Karong-bollong* [Karang Bolong] *near the extremity of the hill, at the discharge of the river Tshitshing-goleng* [Cincingguling], *from which the village and settlement has derived its name*
[No BM number, the specimen is a coarse conglomerate of igneous cobbles. Collected August 1814. See Horsfield, 1816*b*:92.]
[Specimen 6 missing]
7. *Stone of watery deposition, lamellar, nodular &c from the eminence between the discharge of the river Tshitshing-goleng* [Cincingguling] *and the village Karang-bollong* [Karang Bolong]
[BM 73315, pyroxene andesite. See Horsfield, 1816*b*:92–93. Collected August 1814.]
8. *Calcareous stone found in large piles on the hill above Guwo Nagassari* [Guwa Nagasari]
[BM 73346, white fossiliferous limestone, bearing gastropod traces. Horsfield (1816*b*:97–99) states that the limestone above the cave contained numerous shells. Dr C. P. Nuttall of the Department of Palaeontology, British Museum (Natural History) states that the fossil is a holostomatous gastropod, possibly belonging to the fresh water family Thiaridae. According to the Geological Map of central Java 1 : 500,000 (1977 ed.), the Karangbata penninsula is composed of Miocene sedimentary rocks.
[Specimen 9 is missing]
10. *White friable semi-decomposed lava (denominated Padas by the natives belonging to the substance named Tufa) found copiously on the hills on the route from Karang-bollong* [Karang Bolong] *to Dshittis* [Jetis]: (*Similar to n° 7.*)
[BM 73171, yellow quartzite. Collected August 1814.]
11. *Same substance (n° 10) more compact-forming Sandstone found on the same route*
[BM 73427, quartz conglomerate.]
12. *Hornstone-porphyry from the shore near Dshingkla* [Cingkla]
[BM 73309, weathered lava.]
[Specimens 13–17 missing]
18. *Cavernous lava from Udshung-agung* [Ujung-agung] *on Nuso Brambang* [Nusa Brambang]
[BM number obscure, but the specimen is a pyroxene- and zeolite-bearing lava. See Horsfield, 1816*b*:107–109.]
[Specimens 19–22 missing]
23. *Calcareous stone from the foot of the hill near Karang-bolo* [Karang Bolong], *from the same*
[BM 73175, amygdaloidal pyroxene-bearing lava, now much replaced by calcite. See Horsfield, 1816*b*:110.]
24. *Basaltic stones from the rivulet near the village Brambang—from the same*
[BM 73330, vesicular andesite.]
25. *Sand-stone, from an extensive stratum at banks of the river Adiradsha* [Adireja] *in the district of Aya* [Ayah]

[BM 73314, hornblende-pyroxene andesite much replaced by calcite. See Horsfield, 1816*b*:110.]

26. *Cavernous lava from the discharge of the river Adirodsho* [Adireja]—*near the village Sawangan* [Two specimens. BM 73207 and BM 73297 are hornblende andesites. See Horsfield, 1816*b*:111.]

27. *Lava separating into Rhomboidal fragments from the foot of the hill Bedagangan* [Pedagangan] *opposite the village of Adiradsha* [Adireja], *found at the banks of the river*
[Two specimens. BM 73290, and 73392 are grey weathered lava.]

28. *Volcanic tufa—Padas—of the Javanese from Suko-rosho* [Sukaraja]
[BM 73319, agglomerate. See Horsfield, 1816*b*:112–13.]
[Specimen 29 missing]

30. *Lavas from the basin of the river Bandsharan* [Banjaran] *arising from the foot of the mountain of Tagal* [G. Slamat]
[Two specimens. BM 73183 and BM 73223 are basalts with phenocrysts of plagioclase and pyroxene. See Horsfield, 1816*b*:114. G. Slamat (3428*m*) produces pyroxene basalts and andesites (Neumann van Padang, 1951).]

31. *Lavas from the river Lo-Gowak* [Lo-Gowok] *arising from the same mountain*
[Two specimens. BM 73267, dark vesicular pyroxene basalt. BM 73337 is a vesicular, but different, lava. Horsdield, 1816*b*:114–15.]

32. *Lavas from the river Datar near Adshibarang* [Adjibarang]
[BM 73191, grey vesicular basalt with phenocrysts as above. Horsfield was in this area in September 1814. See Horsfield, 1816*b*:116.]

33. *Lavas from the declivity south of Adshibarang* [Adjibarang] *and from various other situations in the neighbourhood of that village*
[Two specimens. BM 73341, dark vesicular basalt, as above. BM 73193 is dense porphyritic lava. Locality referred to in Horsfield, 1816*b*:116 as 'an extensive channel of compact lava' in the river Datar. Collected September 1814.]

34. *Stone of watery deposition from a hill south-west of Adshibarang* [Adjibarang] *near the banks of the river Tiaddshum* [Tajem]
[BM 73232, grey sandy microfossiliferous limestone. See Horsfield, 1816*b*:118–119.]

35. *Varieties of stone of watery deposition from the same place (N⁰ 34) in lamellar, nodules &c &c*
[BM 73340, microfossiliferous feldspathic grit, containing planktonic foraminera of Tertiary age, according to Dr J. E. P. Whittaker. See Horsfield, 1816*b*:120.]

36. *Sandstone from the same place*
[BM 73215, fine-grained grit. See Horsfield 1816*b*:120.]

37. *Rock from the banks of the river Tiadshum* [Tajem] *(resembling Amygdaloid), near Adshibarang* [Adjibarang]
[BM 73369, veined limestone. Localities 34–37 referred to in Horsfield, 1816*b*:118–19.]

38. *Lavas from the road towards Bodshing-Tongo* [Bejing-Tongo?] *in the district* [of] *Probolingo* [Purbalingga]
[Two specimens. BM 73261, pyroxene basalt. BM 73324 is vesicular lava. Horsfield was in this area in September 1814.]

39. *Varieties of Tufa from the river Kelawing near Probolingo* [Purbalingga]
[BM 73282, agglomerate. See Horsfield 1816*b*:121–22.].

40. *Various siliceous stones out of the same*
[Three specimens. BM 73405, greenish quartz tuff. BM 73204 is greenish yellow chert, and BM 73303 is reddish mottled jasper.]

41. *Tufa from Kumutuk* [Kemutug]
[BM 73333, agglomerate. See Horsfield, 1816*b*:121.]

42. *Compact lava, from the same place*
[Two specimens. BM 73165, grey basalt with phenocrysts of pyroxene and plagioclase. BM 73164 is grey vesicular lava (unsectioned). See Horsfield 1816*b*:121. The specimens came from a rivulet. Collected October 1814.]
[Specimen 43 missing]

44. *Rounded volcanic pebbles, from the same place*
[BM 73291, hornblende andesite pebble. See Horsfield, 1816*b*:126.]
[Specimen 45 missing]
46. *Fragments from the large piles composing Gunung Lawet consisting of tabular &c Basaltes* [sic]
[BM 73322, pyroxene-hornblende andesite. See Horsfield, 1816*b*:127–29.]
47. *Sandstone from the foot of the same (see N° 46)*
[BM 73231, grey calcite-bearing grit. See Horsfield, 1816*b*:130–31.]
48. *Stones of watery deposition from the foot of the hill Pawinian, on the route from Bandshar* [Banjar] *to Pagger-pella* [Pagerpelah]
[Three specimens. BM 73389, reddish sandstone with a weathered crust. BM 73224 is calcareous shale, and BM 73361 is yellow sandstone. Horsfield passed this way in October 1814. Some notes on the field occurrence are given in Horsfield, 1816*b*:132–33.]
[Specimen 49 missing]
50. *Basaltes* [sic] *in a state of decomposition from the northern declivity of the eminence of Pagger-pella* [Pagerpelah] *on the road towards Karang-kobar*
[BM 73245, agglomerate or lithic tuff. See Horsfield, 1816*b*:133.]
51. *Varieties of original Basaltes* [sic] *from the same*
[Two specimens. BM 73234, grey pyroxene andesite. BM 73399 is a more weathered and probably similar rock. See Horsfield, 1816*b*:133–34.]
52. *Lava from the basin of the river Kali-urang* [Kaliurang] *near Pagger-pella* [Pagerpelah] *(vesicular belonging to the lava*[*s*] *of later eruptions)*
[Two specimens. BM 73259, grey pyroxene-mica diorite. BM 73287 is weathered grey scoriaceous lava with decomposed phenocrysts. For localities 52–52b, see Horsfield, 1816*b*:134.]
[Specimen 52b missing]
53. *Compact clay in tables with angles rounded by attrition from the same place*
[Two specimens. BM 73248, dark calcareous quartz-bearing mudstone. BM 73283 is a similar rock. See Horsfield, 1816*b*:135.]
53b. *Stone consisting apparently of petrified wood with sparry depositions*
[Specimen missing. See Horsfield, 1816*b*:135.]
54. *Compact Pudding-stone (Amygdaloid?) from the same (N° 52)*
[BM 73363, a coarse conglomerate. See Horsfield, 1816*b*:135.]
[Specimens 55–57 missing]
58. *Basaltes* [sic] *in a state of partial decomposition from the section of an eminence on the road near Kali-lunyar* [Kalilunyah]
[BM 73328, grey pyroxene-bearing tuff. See Horsfield, 1816*b*:138. Collected October 1814.]
[Specimens 59–62 missing]
63. [There is no entry in the MSS or in the printed catalogue (Horsfield, 1816*b*:162). The specimen, however, is a red tuff.]
64. [No entry as above (Horsfield, 1816*b*:162. The specimen is a grey tuff.]
[Specimens 65–68 missing]
69. *Basaltes* [sic] *from the rivulet Kali-Iring* [Kali-iring] *near the village of Kali-Bebber* [Kalibeber]
[BM 73334, grey pyroxene andesite. Collected October 1814. See Horsfield, 1816*b*:148.]
[Specimen 70 missing]
71. *Varieties of lava from the foot of the mountain Sundoro* [Sundara]—*near the village of Kali-Bebber* [Kalibeber]
[BM 73320, black scoriaceous pyroxene andesite. For localities 71–72, see Horsfield, 1816*b*:149–50. Collected October 1814.]
72. *Varieties of lava from the same place (N° 71) taken on the road between Kali-Bebber* [Kalibeber] *and Kerteg* [Kertek]
[BM 73268, grey scoriaceous olivine basalt.]
73. *Varieties of lava found on the road between Kerteg* [Kertek] *and Redsho* [Reja]
[Two specimens. BM 73358, black scoriaceous pyroxene trachyandesite. BM 73297 is reddish weathered lava. See Horsfield, 1816*b*:151. Collected October 1814.]

74. *Volcanic Tufa between Kali-Bebber* [Kalibeber] *and Kerteg* [Kertek]
[BM 73305, lithic tuff. See Horsfield, 1816*b*:151.]

75. *Basaltic-rock separating spontaneously in tables from the tract between Dshittis* [Jetis] *and Pakkis-wiring* [Pakiswiring]
[BM 73277, grey pyroxene andesite. See Horsfield, 1816*b*:153.]

76. *Lava from the environs of Mount Sumbing found near Pakkis-wiring* [Pakiswiring]
[BM 73266, a grey vesicular olivine-pyroxene andesite. This is consistent with Neumann van Padang's (1951) data on the G. Sumbing lava.]
[Specimen 77 missing]

The printed catalogue (Horsfield, 1816*b*:156–63) relating to Horsfield's journey in central Java between 1 August and 4 November 1814 ends with specimen 77. The MS version of the catalogue, with numbers in continuing sequence, relates to specimens that were collected during this and other journeys in Java. Some of Horsfield's collecting localities are marked on Fig. 1.

78. *Tufa—considerably resembling Puzzolana—consisty* [sic] *of basaltes* [sic] *&c agglutinate by clay—in minute particles—Employed for building and ornaments at Japara*
[BM 54985, grey pyroxene-hornblende andesite.]

79. *Stones of watery deposition enclosing particles of pumice and other volcanic substances similar to the Stone of the same formation found at the side of the hill south of Adshibarang* [Adjibarang] *(vide above)*
[BM 54985, grey tuffaceous rock. *NB* The same number as the above but a different specimen.]

80. *Basaltes* [sic] *in a state of decomposition*
[BM 73174, grey tuff of trachytic composition.]

81. *Bog-Iron-ore*
[BM 73179, ferruginous concretion.]

82. *Red-Iron-Stone*
[Specimen missing]

83. *Irregular concretions of a white Clayey substance—with adhering crystals of sulphur—from the crater of mountain Ungarang* [Ungaran]
[Specimen missing]

84. *Minute Basaltes* [sic] *from the same (N° 83)*
[BM 73176, grey pyroxene andesite.]

85. *Varieties of lava from the summit of Mount Marapi* [Merapi], *with other volcanic productions from the same mountain*

[Horsfield visited the region of G. Merapi in 1805 and again in 1810. On one of these (or possibly other) occasions seven specimens were collected. BM 73188, hypersthene andesite. BM 73209, BM 73308 and BM 73310 are augite andesites; BM 73338 is hornblende-pyroxene andesite; BM 73218 and BM 73312 are volcanic sinters.]

86. *Tufa—from the same N° 85*
[Specimen missing]

87. *Lava (?Greenstone) from the southern hills near Menyaran (belonging to the submarine lavas)*
[Two specimens. BM 73270, greenish grey pyroxene andesite. BM 73294 is grey pyroxene-hornblende andesite.]

88. *Tufa from the same*
[Specimen missing]

89. *Minute fragments—chiefly volcanic—from a stratum of Limestone near Menyaran*
[Specimen missing]

90. *Limestone of a gritty texture from the declivities of a slight eminence near Massaran* [Masaran]—*(near the road, where numerous rocks of the same substance project from the earth)*
[BM 73180, yellow limestone.]

91. *Varieties of Chalcedony from various places in the southern ranges*
[Specimen missing]

92. *Varieties of Agate—from the same (vide N° 91)*
[Specimen missing]
93. *Prase—near Kakkap* [Kakap] *in the range of southern hills on the road to Padshittan* [Pacitan]
[Two specimens. BM 73345, contact rock with pitchstone and andesite. BM 73272 is a pitchstone.]
94. *Varieties of Hornstone from the environs of Padshittan* [Pacitan] *and the hills to the eastward of that place*
[Specimen missing]
95. *Jasper from the river* [blank] *near Padshittan* [Pacitan]
[BM 73166, red jasper.]
96. *Porphyry from various situations in the southern hills in the environs of Padshittan* [Pacitan]
[BM 73286, mottled, red jasper.]
97. *Hornstone porphyry. From the southern hills near Padshittan* [Pacitan] *and Lorog*
[Specimen missing]
98. *Fragments of petrified wood rounded by attrition found among the pebbles in the river of Padshittan* [Pacitan]
[Specimen missing]
99. *Woodstone from Cheribon* [Cirebon]
[Specimen missing]
100. *Rock of Floetz trap—formation which composes extensive portions of the ridges of the Southern hills passing into Hornstone-porphyry and other stones of the trap family, often covered or pervaded by crystals of quartz*
[Specimen missing]
101. *Flint from the southern hills near Padshittan* [Pacitan]
[Specimen missing]
102. *Limestone in the form of Corallines, found in extensive masses in conjunction with the flint, forming the basis of extensive hills*
[Specimen missing]
103. *Coral-rock filled with depositions or infiltrations of chalcedony, agate &c from the same hills*[,] *see specimen N° 101 and 102*
[BM 73317, a replaced rock showing possible original structures. The matrix is composed of quartz, secondary silica, and ferruginous 'cement'.]
104. *Iron-Pyrites found between Padshittan* [Pacitan] *and Lorog near the village* [of] *Kerpon* [Kerbon]*: in the southern hills*
[Two specimens. BM 73329, pyrite cubes and quartz. BM 73362, pyrite cubes aggregated with quartz, sphalerite, etc.]
105. *Iron-Pyrites (place where found not known)*
[Specimen missing]
106. *Bituminous shale-(Brand-schiefer of Kohlen-schiefer Schistus-carbonarius of Blumenb :*[)] *found between Padshittan* [Pacitan] *and Lorog in the same ranges of southern hills (See N° 104)*
[BM 73278, contains amber (conceivably retinite) in a shale matrix. Sedimentary rocks of Miocene age are known to occur in this part of Java.]
107. *Yellowish-ochreous clay found in the same stratum with N° 106*
[Specimen missing]
108. *Various stones of aqueous deposition found in the southern hills on the road from Padshittan* [Pacitan] *to Kerpon* [Kerbon] *separating into various lamellar or amorphous particles*
[Specimen missing]
109. *Stones of aqueous deposition found chiefly in nodules of a reddish color at various sections of the hills on the road to Kerpon* [Kerbon] *consisting chiefly of clay*
[Specimen missing]
110. *Stones of Floetz-trap formation resembling Basaltes* [sic] *found in the sections of the hills on the same route (See N° 109) and between Padshittan* [Pacitan] *and Lorog, often in extensive beds*

[BM 73311, highly weathered porphyry.]
111. *Calcareous Spar and Stalactites from the cave of Kalla in the southern hills about* [blank] *miles west of Padshittan* /Pacitan]
[Specimen missing]
112. *Calcareous rock from various points of the hills of Prowoto* [Prawata]
[BM 73239, pale yellow limestone. Possibly collected by Horsfield as early as 1809. Sedimentary rocks of Pliocene age occur in this area, according to the 1 : 500,000 Geological Map (1977 ed.).]
113. *Steatite from the hills of Grobogan ?—(it was obtained at Prowoto* [Prawata] *from Mr S* [blank] *who brought it from its original situation in the district mentioned.)*
[Specimen missing]
114. *Clay from the wells near Kuwu—throwing up an earthy substance (Compare the mire-wells described by Pallas and Clarke)*[7]
[Specimen missing]
115. *Tufa from an extensive layer several miles eastward of Massaran* [Masaran]
[BM 73382, grey pyroclasic rock.]
116. *Varieties of Limestone from the neighbourhood of Jogorogo* [Jagaraga]
[Specimen missing]
117. *Amygdaloid from the river at Jogorogo* [Jagaraga] *taken near the dwelling of the Chinese farmer of Customs*
[BM 73307, fossiliferous limestone containing debris of gastropods, corals, and probably Bryozoa. A Mesozoic or Tertiary limestone.]
118. *Stone of aqueous deposition taken from the same place (See nº 117)*
[BM 73356, grey clay-siltstone.]
119. *Amygdaloid resembling lava from the rivulet Kumukus between Jogorogo* [Jagaraga]
[Specimen missing]
120. *The same substance (see nº 119) taken from another rivulet further eastward on the same route*
[BM 73302, tuffaceous rock.]
121. *Volcanic stone from the foot of Mount Liman near Ngettos* [Ngetos]
[BM 73252, porphyritic, hornblende-pyroxene andesite.]
122. *Basalt from the declivities of Mount Liman, near the road between Tunglur and Berbug* [Berbeg]
[Specimen missing]
123. *Amygdaloid from the same route*
[BM 73344, medium to fine-grained plagioclase- and pyroxene-bearing pyroclastic rock.]
124. *Amygdaloid taken between Charuban* [Caruban] *and Tunglur*
[Specimen missing]
125. *Compact lava from the cave of Selo-mangling* [Selamangleng] *at the foot of the hill Klottok* [Klotok] *near Kediri.*
[BM 73255, olivine dolerite.]
126. *Cavernous lava—similar to nº 12*
[Specimen missing]
127. *Basalt employed in the construction of the Chunkup at Sentul* [BM 73217, pyroxene-bearing trachyandesite.]
128. *Lava from the rivulet at Sentul*
[BM 73250, scoriaceous pyroxene andesite.]
129. *Pebbles out of the basin of the river Konto*
[Three specimens. BM 73162, a hypersthene-augite andesite pebble. BM 73270 is hornblende-pyroxene diorite and BM 73323 is pyroxene andesite.]
130. *Fragments of the large rocks of Basalt* [sic] *rising beyond the surface eastwards of the basin of the river Konto*
[Two specimens. BM 73184 and BM 73292 are pyroxene andesites.]
131. *Tufa from the environs of the village Banaran in the district of Jurung-wangi* [Jurungwangi]
[Specimen missing]

132. *Basalt from the environs of the same village (See nº 131)*
[BM 73280, hornblende-pyroxene andesite.]
133. *White limestone, obtained from the southern districts employed in the construction of various antiquities at the capital of Kediri*
[Specimen missing]
134. *Amygdaloid from Mount Wilis*
[Specimen missing.]
135. *Basalt from Mount Wilis*
[BM 73257, pyroxene andesite.]
136. *Basalt—partially decomposed—from the same (see Nº 135)*
[Specimen missing]
137. *Basalt from the declivities of the hill Klottok* [Klotok]
[BM 73243, pyroxene andesite.]
138. *Lava taken from among the pebbles in the River of Kediri near the capital*
[BM 73347, pumice.]
139. *Amygdaloid from the banks of the river of Kediri taken near Waringin-anom from a very extensive layer exposed at the banks of the river*
[Specimen missing]
140. *Lava taken from the basin of the river Pendem on the road between the Capitals of Kediri and Srengat*
[BM 73258, pumice or crystal tuff.]
141. *Basalt from the hill Melliri* [Meliri] *near Srengat*
[Two specimens. BM 73335, hornblende-pyroxene andesite. BM 73167 is hornblende andesite.]
142. *Amygdaloid from the same (See Nº 141)*
[BM 73357, agglomerate.]
143. *Fragments of the stone employed in the construction of the Chandi of Gedog* [Gedhog]
[BM 73229, altered pyroclastic rock. The specimen is clearly carved on one surface and, as the catalogue claims, is from a temple.]
144. *Fragments of the stone employed in the construction of the buildings of Penataran*
[BM 73301, pyroxene andesite.]
145. *Volcanic pebbles found near the village Benchi* [Benci]*—between Legok and Gebuganging* [Gebug-angin]
[Specimen missing]
146. *Volcanic pebbles out of the Basin of the River Si-walan* [Siwalan] *near the road leading from Blitar to Gebuganging* [Gebug-angin]
[BM 73289, dark pyroxene-bearing andesite.]
147. *Volcanic fragments from the Basin of the river Bajang—on the same road (See Nº 146)*
[Specimen missing]
148. *Fragments of various antiquities found near the village Plumbangan in the district of Gebuganging* [Gebug-angin] *shewing the constitution of the Basalt in this tract*
[BM 73196, grey pyroxene-hornblende andesite.]
149. *Pebbles from the Basin of the river Semut flowing from the mountain Klut* [Kelut]*—eastwards of Gebug-anging* [Gebug-angin]
[Two specimens. BM 73205, grey hypersthene-augite andesite. BM 73203 is grey scoriaceous lava.]
150. *Pebbles from the basin of the river Lesso* [Leksa], *a large stream arising from the foot of Mount Kawy* [Kawi]
[Two specimens. BM 73190, pale grey pyroclastic rock or sandstone. BM73177 is grey hypersthene-augite-biotite andesite.]
151. *Specimens of Trap rocks from the summit of Mt Klut* [Kelut]
[Four specimens. BM 73327, hypersthene-augite-hornblende andesite. BM 73228 is hypersthene-pyroxene-hornblende andesite; BM 73192 and BM 73208 are hornblende-two pyroxene andesites.]

152. *Amygdaloid from the summit of Mount Klut* [Kelut]
[Two specimens. BM 73263, hornblende-two pyroxene andesite. BM 73349 is greyish red two pyroxene andesite.]

153. *Varieties of Trap-rock taken from various points in the Basin of the River Siwalan flowing from the summit of the Klut* [Kelut]
[Twelve specimens. BM 73199, hypersthene-augite-hornblende andesite; BM 73380, medium grained hornblende diorite; BM 73359, hornblende-two pyroxene andesite; BM 73370, two pyroxene andesite; BM 73391, hornblende-biotite hornfels; BM 73260, hypersthene andesite; BM 73295, altered hornblende andesite; BM 73186, altered pyroxene-bearing lava; BM 73250, hypersthene-augite andesite; BM 73216, pyroxene andesite; BM 73304, two pyroxene-hornblende andesite, and BM 73211 is pyroxene-hornblende granulite.]

154. *Calcined Trap of a white color thrown from the Crater of Mountain Klut* [Kelut]
[Two specimens. BM 73220, quartzite. BM 73251 is pumice.]

155. *Lava from the basin of the river Siwalan*
[BM 73233, dark pyroxene andesite.]

155b. *Ball of Lava, probably artificial from the vicinity of the capital of Blitar*
[Specimen missing]

156. *Calcined Trap—resembling pumice, taken out of the strata composing the banks of the river Si-Walan* [Siwalan]
[Specimen missing]

157. *Fragments resembling sandstone and amygdaloid taken from the basin of the same river (See n° 156)*
[Specimen missing]

158. *Semi-decomposed amygdaloid taken from an earthy stratum at the banks of the same river (n° 156)*
[Specimen missing]

159. *Trap-rock taken from the village Semen, at the eastern boundary of Srengat near the foot of Mount Kawy* [Kawi]
[BM 73375, grey pyroxene andesite.]

160. *Trap-rock from the river Soso near the northern boundary of Srengat*
[BM 73226, weathered medium-grained lava.]

161. *Specimens of pebbles and fragments of Trap-rock from the eastern branch of the river of Kediri near the hanging bridge on the route to Selo-gurit* [Selagurit]
[Specimen missing]

162. *Impure limestone from the hill Pandan* [Pandhan]*—connected to the low ridge South of the river last mentioned (N° 161) taken between Besole and Kudung-bunder* [Kedhungbunder]
[BM 73353, creamy-pink mottled limestone.]

163. *Stones formed by Deposition from water taken from the low southern ridge on the road from Klampok to Ngekkul* [Ngekul] *two villages of the district of Ludoyo* [Lodaya]
[BM 73397, pale flaggy siltstone.]

164. *Sandstone from the same road (See n° 163)*
[Specimen missing]

165. *Sandstone employed as a whetstone from Gogo-Dessa* [Gogo-Desa] *in the district of Ludoyo* [Lodaya] *westward of Ngekkul* [Ngekul]
[BM 73400, buff silty sandstone.]

166. *Fragments of Amygdaloid composing the rock at the Cave near the summit of the hill Peggat* [Pegat]
[Specimen missing]

167. *Volcanic pebbles strewed on the surface of the hill Gadja-kombang one of the points constituting the summit of the Mountain Klut* [Kelut]
[BM 73422, grey hornblende-pyroxene andesite.]

168. *Charcoal taken from the Alluvial Strata in the valley of Jurung-Gandul* [Juranggandhul] *on the lower declivities of the mountain Klut* [Kelut]
[Specimen missing]

169. *Lava from the Basin of the river Gedog* [Gedhog]
[BM 73404, grey scoriaceous pyroxene andesite.]

170. *Fragments from the strata composing the sides of the basin of the river Gedog* [Gedhog]
[Specimen missing]

171. *Trap-rock taken from its original situation in the ravine east of the valley of Gedog* [Gedhog] *on the road to the Crater*
[Two specimens. BM 73200, pyroxene andesite. BM 73395 is basalt.]

172. *Various fragments of Trap found in the Basin of the same river (See nº 171) between the village Rawa and the external walls of the Crater*
[Two specimens. BM 73306, quartz-tourmaline rock. BM 73384 is medium-grained augite andesite.]

173. *White gritty deposition found in extensive layers between the alluvial strata on the banks of the river Rowo* [Rawa]
[Specimen missing]

174. *Limestone from Gamping taken near the source of the large river of Rowo* [Rawa] *from the hills bounding the Rawa or lake which covers this tract, in the south*
[BM 73198, buff to pink limestone.]

175. *Trap from a steep pile composing the hill Budeg near the Guwo* [Guwa] *or Cavern*
[BM 73394, andesitic tuff.]

176. *Trap-rock passing into Amygdaloid—from the hill Rajeg-wessi* [Rajegwesi]
[Specimen missing]

177. *Lime-stone projecting in large rocks from an eminence on the eastern banks of the river of Kampak near the village of Bendo* [Bendha]
[BM 73421, buff fossiliferous limestone bearing Miocene crustacean remains.]

178. *Amygdaloid rock passing into limestone from the road towards Rit a precipitous valley between Kampak and Segoro-weddi* [Segara Wedhi]
[Specimen missing]

179. *Limestone taken from the same valley (Nº 178) from an adjoining rock*
[BM 73381, buff fossiliferous limestone.]

180. *Various fragments of Trap-rock from the piles in the same valley near Rit (See nº 178)*
[BM 73378, dark fossiliferous limestone.]

181. *Decomposed Trap-rock from the hill between Kampak and Segoro-weddi* [Segara Wedhi]
[Specimen missing]

182. *Fragments of Trap-rock taken from the southern declivity of the hill between Kampak and Segoro-weddi* [Segara Wedhi]
[BM 73348, welded tuff.]

183. *Pebbles from the shore at Segoro-weddi* [Segara Wedhi]
[Specimen missing]

184. *Pebbles out of the bed of the River of Segoro-weddi* [Segara Wedhi] *taken near the village of Prigi*
[Specimen missing]

185. *Fragments of Hornstone, Hornstone Porphyry &c found in various points detached on the surface near the village Bendo* [Bendha] *in the district of Kampak*
[BM 73396, drusy quartz rock.]

186. *Pebbles taken at different points from the bed of the river of Kampak*
[BM 73327, jasper-bearing conglomerate.]

187. *Trap-rock from the ranges north of the capital of Trengale* [Trenggalek]
[Two specimens. BM 73178, porphyritic andesite. BM 73432 is porphyritic trachy-andesite.]

188. *Fragments from a steep pile of calcareous rock called Watu-lawan* [Watulawang], *between Trengale* [Tranggalek] *and Sawu*
[BM 73202, buff limestone probably of Miocene age.]

189. *Stone formed by aqueous deposition taken near the same rock (See Nº 188)*
[Specimen missing]

190. *Stone of watery deposition taken from the hill Bubug on the further track towards Sawu*

[Specimen missing]

191. *Amygdaloid taken from the same track (See N° 190)*
[BM 73411, porphyritic pyroxene andesite.]

192. *Limestone, from the same track*
[Specimen missing]

193. *Trap-rock from the summit of the hill Iju* [Ijo] *forming one of the principal points of the ranges south of Sawu*
[Specimen missing]

194. *Stones of deposition, taken in the ascent of the same hill*
[BM 73401, quartz tuff.]

195. *Amygdaloid forming part of a huge pile, conspicuous from the village Sawu in the ranges situated nearly directly south of that village*
[BM 73195, pyroxene andesite.]

196. *Fragments of Hornstone dispersed on the surface at the village Maran* [Maron] *near Sawu*
[Specimen missing]

197. *Detached fragments of carnelian found on the surface near the pile of Amygdaloid (See n° 195)*
[BM 73374, is better described as chalcedony.]

198. *Various specimens of lithology from the environs of the village Sawu*
[BM 73197, porphyritic trachyandesite.]

199. *Hornstone porphyry from the hill Chumbri* [Cumbri]
[Two specimens. BM 73426, jasper. BM 73230 is a ferruginous drusy quartz rock.]

200. *Splintery Hornstone from Chumbri* [Cumbri]
[BM 73189, tuff cut by a fine quartz vein.]

201. *Varieties of Sandstone and Amygdaloid, taken in conjunction with N° 199 and 200 from the hill Chumbri* [Cumbri]
[Two specimens. BM 73339, silicified porphyritic lava. BM 73419 is silicified lava.]

202. *Limestone taken from the hill Chumbri* [Cumbri] *above the tract covered with Hornstone*
[Specimen missing]

203. *Incrustation covering the Hornstone Porphyry in the rivulet at the foot of the hill Chumbri* [Cumbri]
[BM 73429, porphyritic andesite covered with an envelope of calcareous algal (?) growth.]

204. *Various objects of lithology from Chumbri* [Cumbri]
[Specimen missing]

205. *Pebbles out of the western branch of the Bengawan (or large river of) Pronorogo* [Panaraga] *from the village Blemben* [Blembeng] *on the road to Kunti* [Kunthi]
[Three specimens. BM 73265, andesite. BM 73373 is banded and contorted rhyolite (?), and BM 73371 is amygdaloidal lava.]

206. *Varieties of objects of Lithology from the hill Ngebel*
[Specimen missing]

207. *Various Specimens from the mountain Lawu*
[BM 73418, pyroxene andesite.]

208. *Rock of Floetz-trap formation forming the hill Chongol* [Congol] *in the ranges south of Suro-kerto* [Surakarta] *near Kedung-prow* [Kedhung-prau]
[Specimen missing]

209. *Alluvial-rock and sandstone of a close texture from the same ranges See n° 208—taken from the hills in a southern and in a western direction from Kedung-prow* [Kedhung-prau]
[BM 73419, pyroxene andesite.]

210. *Limestone employed in burning quicklime at Suruwan* [Suruhan]
[BM 73352, white porous limestone.]

211. *White sandstone, cut into Slabs, tabulae &c employed at the capitals for flooring houses*
[BM 54985, white microfossiliferous limestone.]

212. *Limestone from the environs of the village of Karung-Joho* [Karangjaha], *taken in conjunction with the Sandstone (n° 211)*
[BM 73402, porous limestone.]

213. *Amygdaloid (or puddingstone) taken from the southern ranges near Karang-Joho* [Karang-jaha], *above the Sandstone*
[BM 73416, weathered lapilli tuff.]

214. *Specimens from the hill Wejel* [Wijil] *between the Bazar Tanjung and Pependan, on the route to Kedung-prow* [Kedhung-prau]
[Specimen missing]

215. *Fragments of the hills between Pepedan and Suruwan* [Suruhan]
[Specimen missing]

216. *Various specimens taken at a cavern in the northern declivities of the hill Chongol* [Congol] *(near Kedung-Prow)* [Kedhung-prau] *from a steep pile of Trap*
[Specimen missing]

217. *Fragments of the wall of Mattaram* [Mataram]—*consisting of Basaltic Trap in a semi decomposed state of a white color*
[BM 73431, pumice tuff.]

218. *Specimens of Tufa (padas) from the bed of the river Ello* [Elo] *at the bridge between Bojong and Magelan* [Magelang]
[Specimen missing]

219. *Specimens from the bed of Progo* [Praga] *river*
[Two specimens. BM 73187, pyroxene andesite. BM 73420 is weathered lava.]

220. *Specimens from the southern range about 2 miles west of Boro-budur* [Barabadur]
[Two specimens. BM 73379, hornblende andesite. BM 73169 is weathered lava.]

221. *Specimens of the temple of Borobudur* [Barabadur] *exhibiting several of the varieties of Stone of which it is constructed (all belonging to the trap family)*
[Three specimens. BM 73219 and BM 73385 are pyroxene andesites. BM 73415 is a pyroxene-hornblende andesite.]

222. *Pebbles from the Rivulet Kaliurang arising from the Sundoro* [Sundara] *with breccia and lava taken from the basin of the same river*
[Two specimens. BM 73386, hypersthene-hornblende andesite. BM 73238 is a weathered conglomerate.]

223. *Lava taken from the Strata of accumulation in the ravine at the foot of the Sundoro* [Sundara] *which transmits the river Progo* [Praga]
[Two specimens. BM 73383 and BM 73269 are pyroxene andesites.]

224. *Lava in a state of decomposition from a section of a hill on the route from Chempoko* [Cempaka] *to Blederan*
[Specimen missing]

225. *Compact Trap (or Greenstone) separating conchoidal like Hornblende, taken from a hill on the same route*
[BM 73410, hypersthene andesite.]

226. *Earthy deposition mixt with Sulphur from the Crater of Diyeng* [Diëng]
[Specimen missing]

227. *Varieties of calcined Basalt nodular. lamellar &c from the same*
[Two specimens. BM 73430, buff limestone. BM 73423 is pyroxene andesite, with a whitened and weathered 'crust'.]

228. *Simple earthy deposition white & clayey, from the same*
[Specimen missing]

229. *The same, consisting of calcined basalt formed into a clayey mass, from the Crater of Koppo* [Kopo]
[Specimen missing]

230. *Fragments of the entire masses of Trap in the Crater of Koppo* [Kopo], *calcined only on the external surface*
[BM 73365, olivine-pyroxene basalt with a weathered 'crust'.]

231. *Scoreaceous* [sic] *substance found on the same plain, (*[*N°*] *230) mixt with calcined basalt and Clay, impregnated with particles of Sulphur*
[BM 73409, scoriaceous lava and lappili tuff.]

232. *Semi calcined Basalt of a reddish color from Koppo* [Kopo]
[BM 73298, red/purple lava with phenocrysts and a white weathered 'crust'.]

233. *Red lava (See the Specimens) from the Crater of Koppo* [Kopo]—*NB this occurs frequently in various parts of the summit of the mountain Prow* [Prau] *or Diyeng* [Diëng]
[Specimen missing]

234. *Varieties of calcined Basalt (and trap) from the Crater of Koppo* [Kopo]
[Three specimens. BM 73163, weathered lava with a whitened 'crust'. BM 73424 and BM 73425 are pumice.]

235. *Varieties of the white clayey deposition (from the particles of calcined basalt) impregnated with Sulphur, dispersed or accumulated in various parts of the plain of Koppo* [Kopo]
[Specimen missing]

236. *Detached fragments of Trap from the river Krechek* [Krecek], *flowing into the lake of Menjer* [Menyir]
[Two specimens. BM 73271, pyroxene andesite. BM 73182 is olivine basalt.]

237. *Pebbles from the river Serayu, near Blederan*
[BM 73413, biotite microdiorite. See specimens localities 69–76.]

238. *Semi decomposed breccia resembling tufa, from the road between Blederan and Kerteg*
[BM 73213, agglomerate.]

239. *Fragments of lava, taken from the strata of accumulation, on the same route (as n° 238) between Bo-merto* [Bomerta] *and Kerteg*
[BM 73390, scoriaceous pyroxene andesite.]

240. *Specimens of the varieties of Basalt found in the route from Kerteg to the valley of* [the] *Begalo* [Begaluh] *river*
[Two specimens. BM 73372, hornblende-pyroxene andesite. BM 73388 is pyroxene andesite.]

241. *Pebbles from the River Begalo* [Begaluh] *on the road between Kerteg and Kali-lusi* [Kali Lusi]
[Two specimens. BM 73212 and BM 73221 are pyroxene andesite.]

242. *Two fragments of trap taken from the river Wang* [Wangi ?], *between Kali-lusi* [Kali Lusi] *and Luwano* [Loano]
[Only one specimen survives. BM 73275 is hornblende-pyroxene andesite.]

243. *Semi-decomposed Breccia from the descent between Luwano* [Loano] *and Brengkelan, forming extensive strate* [sic] *near the valley of the Bogowonto* [Bagawanta], *on which are dispersed separate fragments of Basalt*
[Specimen missing]

244. *Sandstone, compact, from the same route—NB this is also found in regular tables or Slabs*
[BM 73222, yellow gritty limestone.]

245. *Pebbles from the Bogowonto* [Bagawanta] *at the ford, on the high road from Jokjokerto* [Jogjakarta] *to Brengkelan*
[Three specimens. BM 73273, BM 73293 and BM 73299 are hornblende-pyroxene andesites.]

246. *Calcareous rock from the first ascent near Pliper* [Plipir] *on the road from Brenkelan to Jokjokerto* [Jogjakarta]
[BM 73242, white limestone. Miocene rocks are mapped as occurring in this area.]

247. *Calcareous rock, cellular and stalactitic from the cave Se-Bendo* [Sibendah ?] *near the village Se Bollong* [Sibolong] *on the same route (See n° 246)*
[BM 73406, yellow concretionary limestone.]

248. *Fragments of a horizontal stratum pervading a large mass of rude Breccia exposed in the same route. (See N° 246)*
[BM 73170, weathered igneous rock.]

249. *Various fragments taken near the summit of the ridge on the same route (See n° 246.)*
[BM 73398, weathered igneous rock.]

250. *Diversified fragments from the pile of trap at Kali-tenga* [Kalitengah], *on the route from Brengkelan to Luwano* [Loano]
[Two specimens. BM 73201, weathered igneous rock. BM 73244 is altered olivine-pyroxene andesite.]

251. *Trappean pebbles from the bed of the river Gessing* [Gesing] *taken at the village of the same name*
[BM 73364, grey chlorite-bearing andesite.]
252. *Calcareous pebbles from the same (*[N°] *251)*
[73254, limestone pebble.]
253[a] *Fragments from an immense layer of trap passing the bed of the river Gissing* [Gesing] *at the village of the same name*
[Specimen missing]
253b. *Fragments of aqueous deposition taken at the termination of the transverse ranges between Bogowonto* [Bagawanta] *and Progo* [Praga] *near the village Griga*
[Two specimens. BM 73214, oblivine-pyroxene basalt. BM 73206 is slightly weathered chlorite and calcite-bearing andesite.]
254. *Fragments of decomposed Breccia resembling Tufa (See N° 238) forming deep perpendicular strata at the banks of the river Progo* [Praga] *at Grubu* [Grugu ?]
[Specimen missing]
255. *The Same (N° 254) consisting of coarse fragments strewed near the banks of the same river*
[BM 73408, lapilli tuff.]
256. *Pebbles out of the river Progo* [Praga] *at Grubu* [Grugu?] *(See N° 254 & 255)*
[Two specimens. BM 73246, a calcareous (?) tuff. BM 73331 is limestone.]
257. *Limestone from the foot of the hill on the road to the cave Siro-Chollo* [Siracala] *near Krettek* [Kretek]
[BM 73210, white crystalline limestone.]
258. *Limestone from the same road taken at the acclivity about halfway to the cave*
[BM 73236, limestone matrix with well developed calcite crystals.]
259. *A fragments* [sic] *of the trap rocks dispersed on this limestone (*[N°] *258)*
[BM 73377, basalt.]
260. *Fragments of the limestone forming steep perpendicular piles on the summit of the ridge containing the cave Siro-Chollo* [Siracala]; *naked and distinctly visible at a considerable distance*
[BM 73354, yellow crystalline limestone.]
261. *Fragment of limestone taken at the cave of Siro-Chello* [Siracala]
[BM 73235, yellow crystalline limestones.]
262. *Fragments of the white stone or decomposed Breccia (resembling that of Mattaram)* [Mataram] *employed in building the walls of the cave just mentioned (*[N°] *261)*
[BM 73237, wedled tuff.]
263. *Fragments of trap employed in constructing the steps leading to the cave—(*[N°] *261)*
[BM 73326, dark pyroxene andesite.]
264. *Fragments of a large, steep pile of trap rocks terminating at the ocean near Manchingan* [Mancingan], *within 200 yards of the warm bath Terang-wedang* [Parangwedang?]
[Two specimens. BM 73403 and BM 73281 are pyroxene andesites.]
265. *Fragments of the same (*[N°] *264) pervaded by extensive veins of calcareous spar—NB The trap is in some parts of this pile firm and entire in others loose, ochreous & decomposed*
[Two specimens. BM 73321, vein of brown calcite in a limestone. BM 73433 is a vein of calcite in a weathered igneous rock.]
266. *A fragments* [sic] *of pumice found near the same pile* [Specimen missing]
267. *Fragments of the steep amygdaloidal pile terminating one of the ranges at the foot of which the warm bath is situated*
[BM 73414, agglomerate.]
268. *Fragments of several separate rocks near the same pile (N° 267) pervaded with veins of Calcareous spar*
[BM 73343, agglomerate cemented and veined by calcite.]
269. *Limestone from the rock projecting at Parang-tritis* [Parangtritis]
[BM 73241, yellow fossilferous limestone.]
270. *Fragments of the Stalactites formed at Parang-tritis* [Parangtritis]
[BM 73428, crystalline limestone with rings of deposition.]

271. *Limestone from the point Selo-Sumbur* [Selasumber], *east of Parang-tritis* [Parangtritis] *terminating the long bay that is here found in the coast*
[Specimen missing]

272. *Fragments of an immense pile of trap-rock terminating one of the ranges between Krettek* [Kretek] *and Manchingan* [Mancingan]
[Two specimens. BM 73366 and BM 73368 are hornblende-pyroxene andesites.]

273. *Tufa partially decomposed, employed in constructing a well at Brambanan* [Prambanan]. *NB This well is situated near the celebrated antiquities, and a work of the ancient inhabitants or Bramins*
[BM 73355, welded tuff.]

The whereabouts of specimens 274–366 referred to in the MS catalogue in the India Office Library and Records, London (*MSS. Eur. F. 53*) is unknown. Considerations of space also make publication of their descriptions impossible.

Horsfield's geochemical analyses

In addition to his prodigious field collecting activities in Java Horsfield was also busy in the laboratory. His chemical analyses of volcanic ash thrown out by G. Guntur in 1803 and pyrite ore found in the highlands of Jakarta were published in 1814 (Horsfield, 1814*a*) and surprisingly reveal him to be a competent analyst by the standards of his day. These analyses, however, should first be set within the context of the mineralogical/petrological chemistry of the time. Hey (1973) points out that T. O. Bergman (1735–1784) was probably the first to attempt a complete analysis of a mineral in the 1770s. M. H. Klaproth (1743–1817) added his own contribution to analysis during the late eighteenth century, and by 1784 Richard Kirwan (1733–1812) was able to list 74 analyses of rocks and minerals which had been done by himself and others. The work of Kirwan (1784) and Klaproth (1801) was probably known to Horsfield, whose analyses, though published in 1814, were recorded in the Dutch language in 1803. A translation of Horsfield's (1814*a*) analysis scheme, annotated with chemical notes, is given below.

Chemical analysis of a volcanic sand and an iron-ore

By Thomas Horsfield, Med. Dr.
(*Verh. Batav. Genoot. Kunst. Wet.*, 7, no. III (1814), pp. 1–8.)

I. Chemical analysis of a volcanic sand
In the night of 6 and 7 April 1803, and during a few hours of the last mentioned day a fine, black, sandy material was precipitated very slowly from the air in the town and neighbourhood of Batavia. Initially it was not known where this material came from, and opinions about it were divided. After a few days intelligence was obtained from the highlands that Thunder Mountain (*Donderberg*), or Goenoeng Goentoer, in the district of Timbangantang, had been burning violently from the 3rd to the 15th of April, and had thrown out very great quantities of Lava [*Lava*] and Sand [*Zand*]; the finest particles of this sand had been carried by the southerly wind as far as Batavia.

The purpose of the following experiments was to determine how far this sand in constituent-parts corresponded with the usual Volcanic emission, and it appeared from this, that this same [sand] is only a powdered Lava. The colour of this Volcanic Sand is black or very dark greyish, and when collected in some quantity resembles a very fine powder, in which a few glistening particles can be observed; this same material is strongly attracted by the Magnet.

Experiment I. Two hundred grains [in weight] of this Sand were heated for an hour in an ounce of Aqua regia [*Koningswater*] which had been diluted with a few ounces of distilled water; the liquid was now isolated by filtration, and the residue, having been washed out with distilled water, was carefully dried; it weighed exactly *one hundred and seventy five* grains.

Plate 4 Gunung Guntur photographed in 1978. This mountain was the source of the ash which Horsfield attempted to analyse in 1803.
Reproduced by permission of Mr N. Rock.

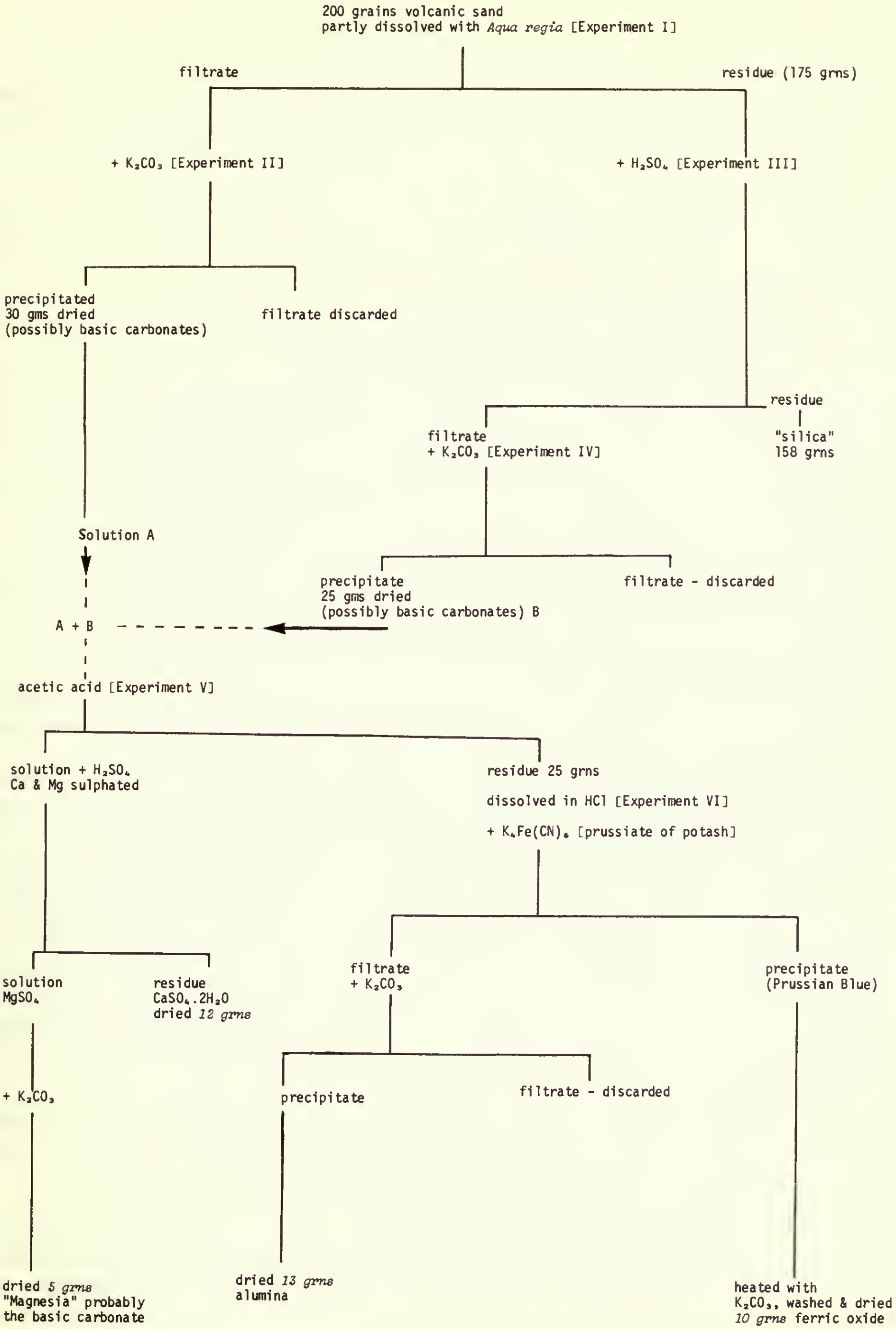
200 grains volcanic sand
partly dissolved with *Aqua regia* [Experiment I]
filtrate
residue (175 grns)
+ K_2CO_3 [Experiment II]
+ H_2SO_4 [Experiment III]
precipitated
30 gms dried
(possibly basic carbonates)
filtrate discarded
residue
filtrate
+ K_2CO_3 [Experiment IV]
"silica"
158 grns
Solution A
precipitate
25 gms dried
(possibly basic carbonates) B
filtrate - discarded
A + B
acetic acid [Experiment V]
solution + H_2SO_4
Ca & Mg sulphated
residue 25 grns
dissolved in HCl [Experiment VI]
+ $K_4Fe(CN)_6$ [prussiate of potash]
solution
$MgSO_4$
residue
$CaSO_4.2H_2O$
dried *12 grns*
filtrate
+ K_2CO_3
precipitate
(Prussian Blue)
+ K_2CO_3
precipitate
filtrate - discarded
dried *5 grns*
"Magnesia" probably
the basic carbonate
dried *13 grns*
alumina
heated with
K_2CO_3, washed & dried
10 grns ferric oxide

Fig. 2 A flow diagram illustrating Horsfield's analytical scheme for volcanic ash. By this scheme any manganese present would be found with the magnesia, titania and phosphate with the alumina, and the alkalis would be lost.

Experiment II. From the solution the dissolved parts were precipitated by the plant alkali [*planten loog-zout*], which on the filter [*filtrum*] well washed out and carefully dried, weighed *thirty grains.*

Experiment III. Since the remaining Sand from the First Experiment was still partly attracted by the Magnet, so was the same [sand] diluted with sulphuric acid [*zwavel-zuur*], repeatedly heated, until no soluble parts showed; the insoluble residue, after washing out, was collected on the filter and dried; it weighed *a hundred and fifty eight* grains; nothing of this was attracted by the Magnet.

> [The material undissolved by the aqua regia followed by sulphuric acid will not be all silica; whether the 'sand' was volcanic glass or partly crystalline it will not wholly be decomposed by acid.]

Experiment IV. To this solution made by sulphuric acid [*zwavel-zuur*] was added the plant alkali [*planten loogzout*], until no further precipitation took place—The dried residue weighed *twenty five* grains.

Experiment V. The residue of the last Experiment, weighing twenty five grains, and that of the second Experiment, weighing thirty grains, were mixed and heated with distilled acetic acid [*azijn*], in order to determine the lime [*kalk*] or magnesia [*bitteräarde*], which they might contain.—The indissoluble parts were washed out on the filter, and then carefully dried; they weighed exactly *twenty five* grains.—The acetic acid [*azijn*] was evaporated until dry, and on the residue cast diluted sulphuric acid [*zwavel-zuur*], in order to combine the calcareous earth [*kalkäarde*] to the selenite [*seleniet* or *sulphas calcis*] and with the magnesia [*bitteräarde*] to epsom salt [*bitterzout* or *sulphas magnesia*]. A few ounces of the distilled water were added to this, in order to separate the epsom salt [*bitterzout*] from the indissoluble selenite [*seleniet*].

From the filtered liquid the magnesia [*Bitteräarde*] was precipitated by the plant alkali [*planten loogzout*], which when dried weighed *five* grains.

The dried selenite [*Seleniet*] weighed *eighteen* grains; (of which about two-thirds or twelve grains were calcareous earth [*kalkäarde*], the remainder were sulphuric acid [*zwavel-zuur*] and water).

> [The united potassium carbonate precipitates, treated with acetic acid, will extract nearly all the lime and magnesia, but some alumina may be dissolved as well, and if so will be counted as magnesia; the small quantity of magnesia found suggests that this separation was in fact good. 'Selenite' formation will not give a perfect separation of lime from magnesia as gypsum is not quite insoluble (solubility about 0·5%), but again, the magnesia suggests quite a good separation. The 'magnesia' will be basic magnesium carbonate before drying; what remains after drying depends on the drying temperature, but Horsfield's 2·5% MgO is not far out—although the 'silica' will include much MgO, probably as pyroxene (insoluble in acid). The dried 'selenite' is a problem; gypsum is $CaSO_4.2H_2O$ with 32½% (not two-thirds) CaO; if dried at a temperature above 120°C, it loses water leaving $CaSO_4.\frac{1}{2}H_2O$ (Plaster of Paris), which has 39% CaO; so the selenite contained somewhere between 6 and 7 grains CaO.]

Experiment VI. The remaining precipitate after treatment with acetic acid [*azijn zuur*], which weighed twenty five grains (see last experiment) was dissolved in diluted muriatic acid [*zeezout zuur*]: To the solution was added Prussiate of potash [*blaauwzuur loog zout* or *Prussias potassae*], for as long as any precipitation took place.

The Prussian blue [*blaauw-zure ijzer* or *Berlijnsch blaauw*] was collected on a filter cloth, heated with plant alkali [*planten loogzout*], and well washed out with distilled water; by that means the Prussic acid [*blaauw zuur*] was broken up and only the iron left, which dried weighed *ten* grains.

Experiment VII. To the filtered liquid, after the removal of the Prussian blue [*blaauw zure ijzer*], was added plant alkali [*planten loogzout*] until no further precipitation took place.—The precipitate was then well washed out and dried, it was pure alum earth [*Aluin-aarde*], and weighed *thirteen* grains—

[The precipitate would not lose all water on drying, it takes a bright red heat to dehydrate alumina fully—but there were probably not less than 12 grns Al_2O_3.]

Two hundred grains of this volcanic Sand thus consist of:

5	grains of magnesia [*Bitteraarde*], Experiment V.	[2·5% magnesia]
12	grains of calcareous earth [*Kalkaarde*], Experiment V.	[6% lime]
10	grains of iron [*Yzer*], Experiment VI.	[5% total iron oxides]
13	grains of alum earth [*Aluinaarde*], Experiment VII.	[6·5% alumina]
158	grains of silica (siliceous earth) [*Kiezelaarde*], Experiment III.	[79% silica (see note to Experiment III)]
198	grains	
2	lost	[10% alkali's lost?]
200		

According to the exact chemical analysis the usual volcanic products like Lava [*Lava*], Basalt [*Basalt*] &c. consist of silica [*Kiezel*], alum [*Aluin*] and calcareous earth [*Kalkaarde*] with a little magnesia [*Magnesia*] and iron [*Yzer*], in different proportion of mixing; to show [prove] the similarity of the constituent-parts of this sand with these volcanic substances was the purpose of the narrated experiments.

[G. Guntur is known to produce basalts and augite-hypersthene andesites. Neumann van Padang (1951:91) gives two analyses of the lava. A value of 55–65% for the silica might reasonably be expected for andesite (Le Maitre 1976), and for pyroxene andesites in general (Moore *et al.* 1979 Nos 73, 104, 117, 120, etc), so Horsfield's silica figure of 79% is very high for an andesite. Neither aqua regia nor dilute sulphuric acid however is competent to give a complete attack on the silicates. The roughly equal proportions (but not the values) of CaO, Al_2O_3, and total iron, and about half as much MgO in the final analysis, look reasonable. For this date, however, this is a good analysis. The factor of two-thirds for the lime in 'selenite' was current in Horsfield's day and was not corrected generally until about 1807–10. Klaproth used a better figure, but most of his work, which included the first really effective attack on the silicates (fusion with alkali), was produced around 1803–07 and would not have been available to Horsfield. See also note to Experiment V above. (We are grateful to Dr M. H. Hey of the Department of Mineralogy, British Museum (Natural History) for this and the other notes on Horsfield's analysis schemes which are inset with the translation, with the exception of the note on Junghuhn.)

The very different results of the chemical analysis made by P. J. Maier in Batavia in 1843 of the volcanic ash thrown out by G. Guntur on 4 January of that year was largely attributed by J. C. A. Diederichs (under whose supervision the experiments were conducted) to the advance in chemical analysis since Horsfield's day. Maier's analysis showed a marked *decrease* in the percentage of silicia (34·2%) and magnesia (0·68%), and a substantial *increase* in iron-oxide (18·1%). Junghuhn, who fully records the details of Maier's analysis and Diederichs' comments, defends Horsfield's analysis by rightly emphasizing the fact that the same volcano will throw out different products during different eruptions (Junghuhn, 1853–54, **II**:115–18).

Assuming that the chemical analyses concerned are accurate (for discussion see Hey, 1973), the present day petrologist uses the variation of chemical composition in lavas to establish a differentiation trend which can be represented graphically. The history of the evolution of petrological theory however is too involved to discuss here, but an early and still valuable landmark was written by A. Harker in 1909, *The natural history of igneous rocks*. Methuen, London. 384 pp.]

II. Chemical experiments with Massoerong

The mineral substance, which is the subject of the following experiments, is an iron-ore, which is found in the Jakarta Highlands: the pieces are of different size, of half a drachma to some pounds in weight; the outside colour is whitish-yellow, and glittering; they are brittle and easy to shatter, on the inside they are lighter in colour and more glittering. Most of the fragments are of an irregular crystal shape; some have the shape of regular four-sided, sharp edged crystals; by the Natives they are often made into knotty points [knobs: *knoopen*]; The usual Dutch name is steel-stone [*staal-steen*].

The following experiments show the constituent-parts.

Experiment I. A hundred grains [in weight] of this powdered iron ore in a small covered crucible were exposed to a fierce heat for half an hour; when the crucible was opened the mass blazed like pyrophorous [*pijrophorus*] and abundant sulphurous fumes [*zwavel dampen*] arose; there were no traces of Arsenic [*Arsenic*]. After cooling, the mass weighed *seventy five* grains—It was now a dark brown colour, and was easy to grind to powder.

> [The ‘pyrophorous’ was simply finely divided metal, usually iron; if exposed to air while still hot, it oxidises so rapidly that a sample that has cooled a little below red heat will glow brightly again,—hence the name.]

Experiment II. A hundred grains of finely powdered Massoerong were heated with an ounce of dilute muriatic acid [*zee-zout zuur*]; during the heating many sulphurous fumes [*zwavel dampen*] developed.—The liquid was separated and the residue well washed out; it weighed dried *ninety* grains, and it was still strongly attracted by the Magnet.

> [An attack with dilute hydrochloric acid (muriatic acid) will not dissolve pyrite, and only attacks magnetite slowly. It would dissolve pyrrhotine and would attack any partly oxidised pyrite. From this experiment it appears that the ore probably contained about 90% of pyrite + magnetite, or more probably the magnetic mineral pyrrhotine, + gangue.]

Experiment III. This residue was mixed in a small crucible with 15 grains of coal dust and made red-hot for an hour; the residue now repeatedly heated with diluted sulphuric acid [*zwavel zuur*] until nothing more was dissolved; on the liquid swam glassy little scales, which on the fire smoked like sulphur [*zwavel*]. After the decomposition the residue weighed *twelve* grains, and was not attracted by the Magnet; it was for the greater part Silica [*Kiezel-aarde*].

> [This experiment determines the gangue at 12%; the ignition with coal dust would reduce the pyrite, magnesite, and pyrrhotine to acid-soluble metal.]

Experiment IV. The solutions of the Second and Third Experiments were mixed, and by the plant alkali [*planten loog-zout*] all the dissolved parts precipitated, which on the filter cloth were washed out and after this dried.—They weighed *seventy* grains.

> [This experiment found ferric oxide 70%, corresponding to 49% iron; this figure is probably a little high, for if the dried (not ignited) iron oxide was substantially $FeO.OH$ (goethite) which it might well have been, it would have been 63% Fe_2O_3. Merely drying a ferric hydroxide precipitate will leave some water; a better figure for the iron is derived by combining Experiments I and II, subtracting 12% gangue from the 75% residue of Experiment I which gives 63% Fe_2O_3, containing 44% iron, which if present wholly as pyrite would need 50½% sulphur. If we accept 12% gangue and 44% iron we could have 44% sulphur by difference; and if part of the iron is present as magnetite, or pyrrhotine, or both, the 6% difference is not serious. In fact, the analysis could be interpreted as (assuming no magnetite,—pyrrhotine being magnetic):

gangue	12%		
pyrite (FeS_2)	71%	= 33% Fe,	38% S
pyrrhotine (Fe_7S_8—FeS)	17%	= 11% Fe,	6% S
		44% iron	44% sulphur

Experiment V. These seventy grains were heated in six ounces of distilled acetic acid [*azijn*]; the undissolved parts isolated by filtering, and the acetic acid [*azijn*] evaporated until dry; diluted sulphuric acid [*zwavel-zuur*] was added, in order to separate the possibly present calcareous earth [*Kalk-aarde*] from the Magnesia [*Magnesia*]; the undissolved parts, which were selenite [*seloniet*] weighed dried *two* grains; and from the liquid, diluted with distilled water, were precipitated by plant alkali [*planten loogzout*] three grains of Magnesia (*Bitteraarde*).

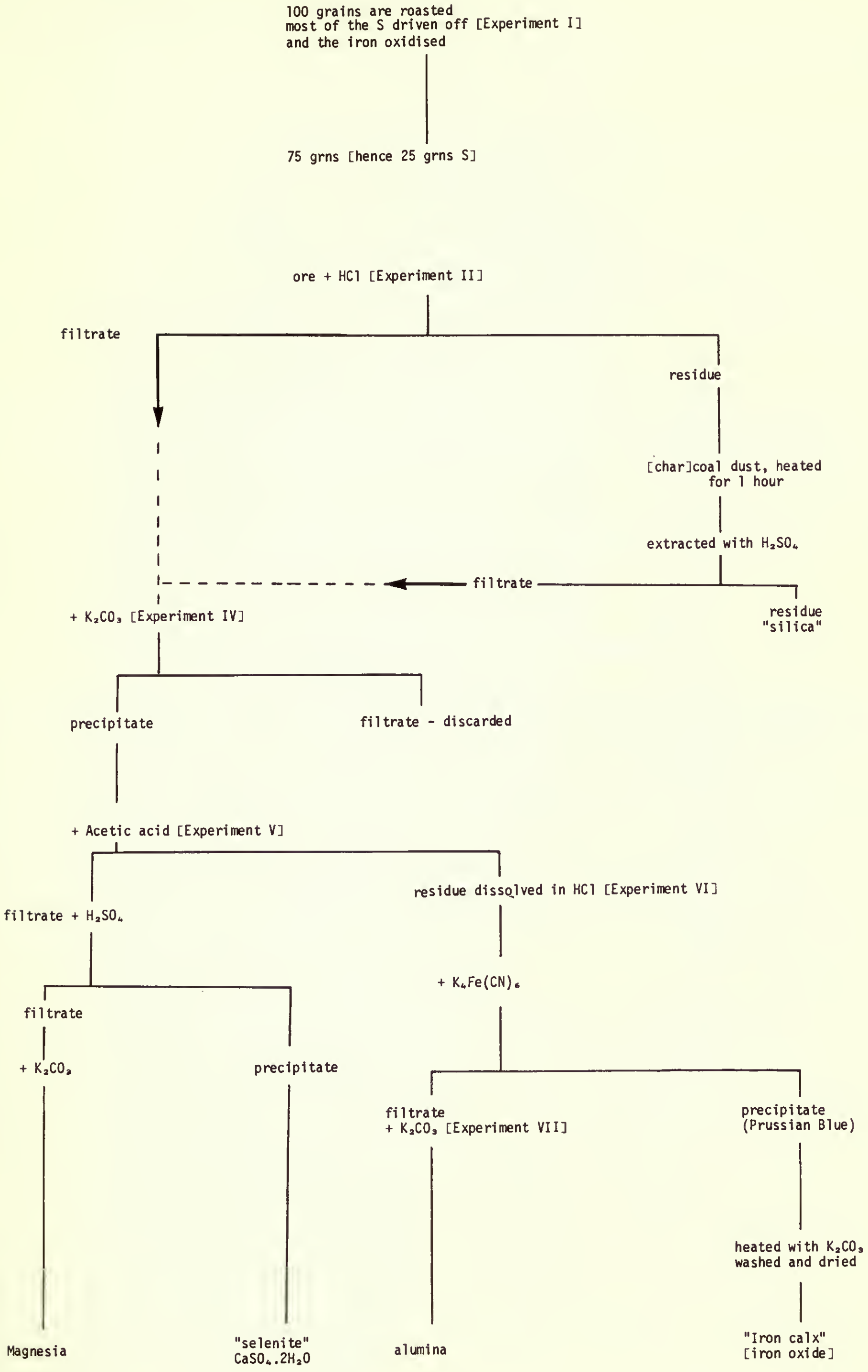
100 grains are roasted
most of the S driven off [Experiment I]
and the iron oxidised
75 grns [hence 25 grns S]
ore + HCl [Experiment II]
filtrate
residue
[char]coal dust, heated for 1 hour
extracted with H₂SO₄
filtrate
residue "silica"
+ K₂CO₃ [Experiment IV]
precipitate
filtrate - discarded
+ Acetic acid [Experiment V]
filtrate + H₂SO₄
residue dissolved in HCl [Experiment VI]
filtrate
+ K₂CO₃
precipitate
+ K₄Fe(CN)₆
filtrate
+ K₂CO₃ [Experiment VII]
precipitate (Prussian Blue)
heated with K₂CO₃ washed and dried
Magnesia
"selenite" CaSO₄.2H₂O
alumina
"Iron calx" [iron oxide]

Fig. 3 A flow diagram illustrating Horsfield's analytical scheme of a pyrite/pyrrhotine ore.

Experiment VI. After heating with acetic acid [*azijn*] the undissolved parts (the last experiment) were dissolved in hydrochloric acid [*zeezout zuur*] and diluted with water; Prussiate of potash [*blaauw zuur loog zout*] was added until no more precipitation had taken place; the precipitate was separated by filtration and heated with plant alkali [*planten-loogzout*]; the well washed out and dried Iron-calx [*Yzer-kalk*] weighed *forty-nine* grains.

Experiment VII. From the filtered liquid (of the Sixth Experiment) were precipitated by the plant alkali [*planten-loogzout*] six grains of alum-earth [*Aluin-aarde*].
According to these experiments 100 grains of Massoerong consist of

25	grains of sulphur [*Zwavel*], Experiment I.	[25%]
49	grains of Iron-calx [*Yzer-kalk*], Experiment VI.	[49%]
23	grains of Earthy (terreous) parts [*Aardachtige deelen*], Experiments II, V and VII.	[23%]
3	grains (by loss)	[3%]
100	grains.	

[At the date of this work, it was not commonly realized that in sulphides the sulphur is combined with a metal, not with a metallic oxide; hence Horsfield assumes that the 25% loss of weight in Experiment I is sulphur whereas in fact 44% of sulphur has been lost and replaced by 19% oxygen;

the two reactions are: Pyrite $4FeS_2 + 3O_2 \rightarrow 2Fe_2O_3 + 8S$
Pyrrhotine $4FeS + 3O_2 \rightarrow 2Fe_2O_3 + 4S$]

Horsfield's mineralogical map of Java

Horsfield intended that his paper 'On the mineralogy of Java' (1816*a*) should be accompanied by a mineralogical map of the island, but what he compiled for the purpose was adjudged insufficient for publication (Horsfield *et al.*, 1838–52, Postscript: ii, footnote). The map in question may possibly be that in Horsfield's hand in the India Office Library and Records, London. It is, in any case, to be doubted if the Government Press at Batavia which printed his paper had the technical apparatus at that time to produce such a map. It was therefore only with the publication in London of the large map of the island in Raffles' *The history of Java* (1817) that there appeared as a modest inset Horsfield's 'Mineralogical sketch of the island of Java', dated 1812. (Fig. 4). It was later reproduced (also in colour) with lettering in French in Fr. J. F. Marchal's *Description géographique, historique et commerciale de Java et des autres iles l'archipel Indien* (Brussels, [Paris], 1824–25).

The map was made at a time when geological maps were being prepared elsewhere. For example, the geological map of the United States by William Maclure (1767–1840) appeared in 1809 with a French translation in 1811 (White, 1977), and William Smith (1769–1839) published his large geological map of England in 1815. Earlier, Smith had produced two smaller geological maps, one of the Bath neighbourhood in 1799, and a simple geological map of England and Wales in 1801 (Eyles, 1969). Thus Horsfield's map was more or less contemporary with these[8].

From a geological standpoint, however, there are differences between Java and England. Java is dominated by large, active volcanoes and their products. Sedimentary rocks are few and, with the exception of some Mesozoic sediments, are Tertiary in age or younger. Hence we cannot expect a geological map of the same type as Smith's with the representation of England's fossiliferous sedimentary strata. Horsfield did comment on fossils at, for example, his locality 8, where he noted that the stone contained shells. Apart from rocks containing microfossils, which Horsfield would not have known about, he collected other fossiliferous specimens, most notably at his localities 117 and 177 (see catalogue). But in the main he was silent on stratigraphical and palaeontological considerations. Inevitably, lavas predominate both on his map and in his collection. Horsfield's mineralogical map was therefore well named. Unfortunately techniques did not exist at that time for examining lavas. Nor had our contemporary mineralogical classification

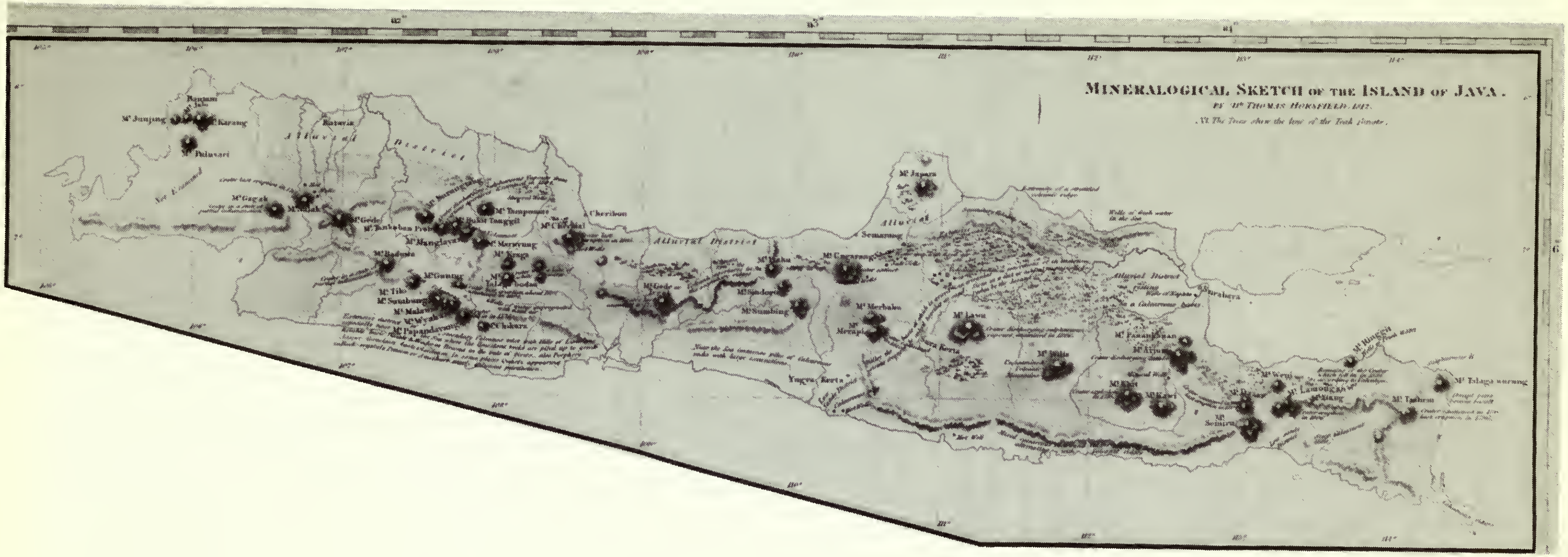
MINERALOGICAL SKETCH OF THE ISLAND OF JAVA.
BY DR THOMAS HORSFIELD. 1812.
Batavia
Alluvial District
Cheribon
Semarang
Mt Japara
Sourabaya
Yugya Kerta
Mt Merbabu
Mt Lawu

Fig. 4 'Mineralogical sketch of the island of Java. By Dr Thomas Horsfield, 1812.' An inset on the map of Java in T. S. Raffles' *History of Java* (London, 1817).

of rocks been produced; this had to wait until the 1850s when there came about improvements in the petrological microscope, and, as important, a technique for making thin sections of rocks.

Whatever its limitations, Horsfield's map held its position for more than thirty years, largely because the early members of the Natural Sciences Commission in Indonesia devoted their principal attention to botany and zoology, with a consequent neglect of geology and mineralogy. This situation was eventually remedied with the arrival in Java in 1835 of F. W. Junghuhn who, in a series of articles during the 1840s, in his *Topographische und Naturwissenschaftliche Reisen durch Java* (Magdeburg, 1845), and most notably in his *Java, zijne gedaante, zijn plantentooi en inwendige bouw* (Amsterdam, 1850–53; The Hague, 1853–54), revolutionized the study of Indonesian geology and vulcanology. In the latter work Junghuhn explicitly states that his principal aim was to draft, on the basis of the labours of Horsfield and Raffles, an improved location map of the volcanoes of Java. He noted one or two inaccuracies in Horsfield's mineralogical map (the omission of G. Raung and the representation of G. Idjen by the word 'Tashem') and then went on to pay the following remarkable tribute to his American predecessor (Junghuhn, 1853–54, I:98–99):

> One must do justice to the man, to admire the tenacity of him, who in an age when travelling in Java, namely from 1800 to 1812 [*sic*], was attended with so many greater difficulties than at present, assembled such complete materials for such a comprehensive work, for a work, that, relative to Java, may be taken as the first of its kind. Th. Horsfield was the *first* naturalist who made his way through the age-old forests of Java and at the same time the first who has investigated and described the island from a geographical-geological point of view.

Horsfield paid his own tribute to the German naturalist in 1852 (Horsfield *et al.*, 1838–52, Geographical Preface:ii–iii), after the publication of Volume I of Junghuhn's *Java*, containing a hypsographical representation of all the island's volcanoes:

> As a proof of extent of research, perseverance of labour, skill and ingenuity of construction, it is, in my opinion, unequalled by any similar representation of a volcanic range. This work is the result of many years' research in Java, during which every individual of the series of volcanos, forty-six in number, with a single exception, was ascended, examined, described and illustrated by many local maps, diagrams, views of craters and profiles.

He went on to amplify Junghuhn's corrections of his mineralogical map and to explain the circumstances of its compilation (Horsfield *et al.*, 1838–52, Postscript:ii, n.*):

> In the paper referred to ['Essay on the mineralogy of Java' (Horsfield, 1816*a*)] it was my object to give a general, though necessarily imperfect enumeration of the series of volcanos, extending from west to east, through the whole island. At the same time I had compiled hastily a geological sketch, which was not sufficiently correct for publication. It may therefore be useful on this occasion to explain several mistakes and omissions which have been noticed, especially in the eastern division: namely the name of the Mountain Raön [G. Raung] has been omitted, and the name of Mount Ijen [G. Idjen] has been incorrectly engraved Tashem.

Catalogue of rock specimens collected by Horsfield in Bangka

Horsfield left Batavia for Bangka on 1 November 1812 aboard the brig *Minerva* (Captain M. Holmes) accompanied by Colonel J. Eales, Resident and Commandant of Palembang and Bangka, Captain J. Hanson, a draughtsman, assistant, Indonesian collectors, and a body of troops. Ill-health soon began to affect the British garrison on the island and Horsfield was obliged to act as surgeon. In this connection he established a modest hospital in what was regarded as a healthy neighbourhood near the village of Ranggam, to the east of Muntok. Both Eales and Hanson were forced to return to Java because of sickness and the former was succeeded by Major W. Robison. After consultation with him Horsfield began a botanical, zoological and geological collecting tour of the island in March 1813.

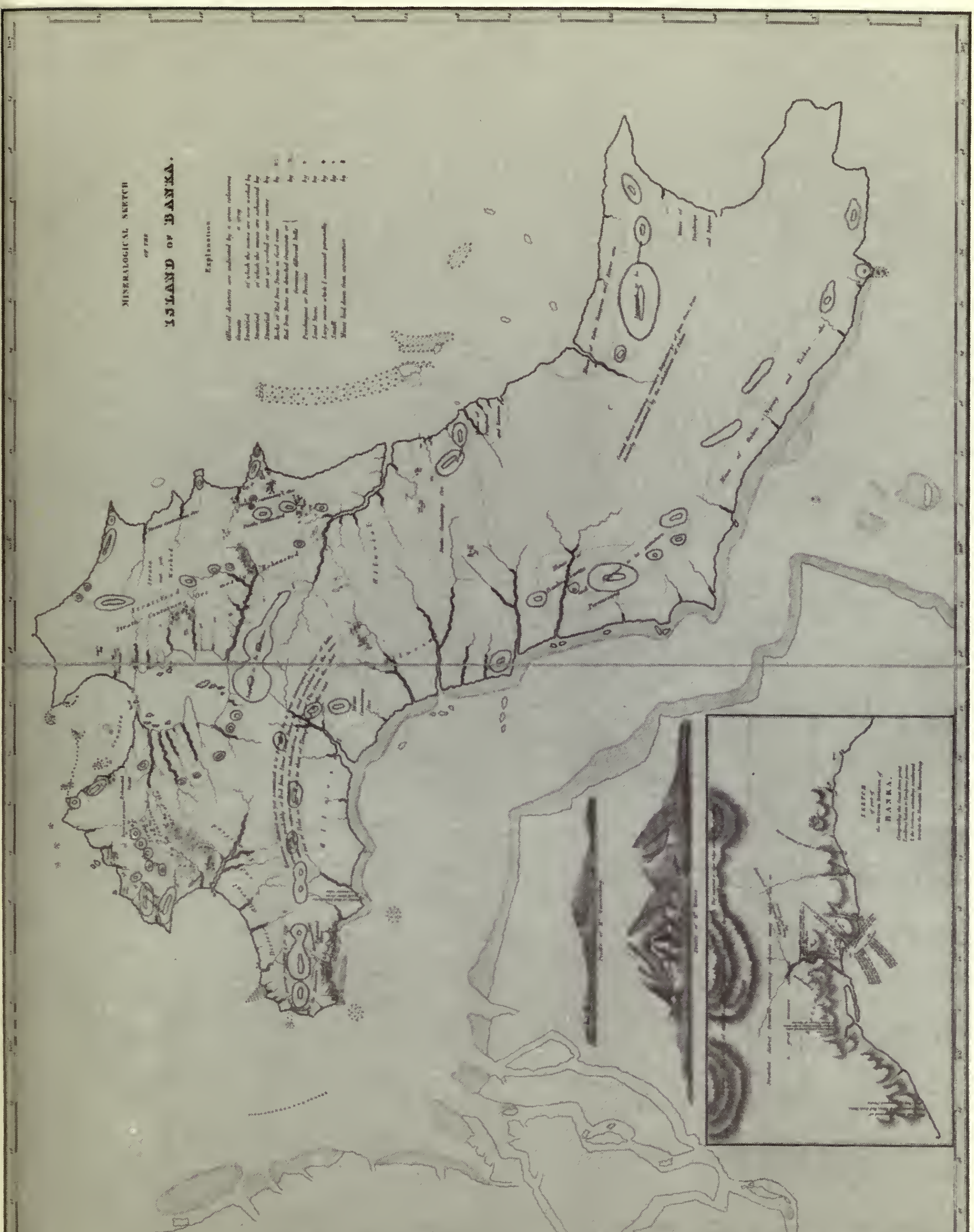
MINERALOGICAL SKETCH
OF THE
ISLAND OF BANKA.
Explanation
SKETCH
of part of
the Western Division of
BANKA.

Fig. 5 Mineralogical map of the island of Bangka, by Dr Thomas Horsfield, in the India Office Library, London.

In accordance with his instructions (Lady Raffles, 1830:607), Horsfield paid particular attention to the tin deposits in the island and tin extraction by the Chinese. Geologically Bangka is more similar to Peninsular Malaysia and Pulau Belitung than to its near neighbour Sumatra, the ore-producing zone running from Peninsular Malaysia through Bangka and Belitung to south-west Borneo (Katili, 1974). The island is composed of Triassic sediments and lavas, with some granites (Jackson, 1969), and Horsfield noted that the highest points of the island were granite but that the ore was often found in horizontal, sedimentary strata.

After his return to Java in July 1813 Horsfield prepared a long report on the geography and geological structure of the island for Raffles who in 1817 proposed that it should be worked up into a book entitled *An account of the island of Banca, in the East Indies*. For various reasons, this work was not completed, and it was only in 1848, as a result of the endeavours of J. R. Logan, editor of the *Journal of the Indian Archipelago*, that Horsfield's original report was published in that periodical, a Dutch translation appearing in the *Tijdschrift voor Nederlandsch Indië* between 1850 and 1852 (Horsfield, 1848).

Even before Horsfield left Bangka some of his botanical and geological specimens were lost for he records (Lady Raffles, 1830:611) how his draughtsman was killed in a scuffle with Indonesians and many of his specimens destroyed. Unfortunately, what remained of his Bangka geological collection no longer survives. It is clear from records formerly at the India Museum and now in the Mineralogy Department Library, British Museum (Natural History), that the collection was at Fife House, London, during the 1860s; but if, at the final dispersal of materials of the India Museum in 1879, the collection was given to the Royal School of Mines, enquiries there have failed to trace it.

There are three versions of Horsfield's catalogue of geological specimens from Bangka in the India Office Library and Records, London (*MSS. Eur. F. 53*). One is written by Horsfield and one by his usual scribe. The third document is a description of the localities written by the scribe and is entitled 'Section II Mineralogical descriptions of the Island'. In all, two hundred localities were visited on the northern part of the island, and their locations are marked on the map which Horsfield made, and which was subsequently engraved. This collection is better documented than Horsfield's collecting localities in Java so that it is all the more unfortunate that the Bangka collection is now lost.

Catalogue of rock specimens collected by Horsfield in Sumatra

Much is known about Horsfield's activities in Sumatra during 1818 when he travelled with Sir Stamford Raffles and Lady Raffles from Padang on the west coast to Pagarruyung. He left Padang on 14 July with an advance party of coolies, two days before Raffles and Lady Raffles, and they met up again on 17 July at the toll post beyond Limaumanis. The bed of the river there 'afforded a fine opportunity for collecting specimens of minerals . . . principally of volcanic origin' (Lady Raffles, 1830:345), and on 18 July further specimens were collected between there and P. Campeda (Catalogue Nos. 2(?), 5). On 21 July at Saningbakar Horsfield collected in localities 12, 18–19, and 22. On 22 July the party crossed the Singkarak lake and reached Simawang, where Raffles records having found 'feltspar, granite, quartz, and other minerals of a primitive formation . . . mixed with a variety of volcanic productions in the greatest confusion . . . Dr. Horsfield got specimens of these, which he gave in charge of some coolies who attended him; after a day's journey he wished to examine this collection; the men produced their baskets full of stones, but on the Doctor's exclaiming they were not what he had given them, and expressing some anger on the occasion, they simply observed, they thought he only wanted stones, and they preferred carrying their baskets empty, so they threw away what he gave them, and filled them up at the end of the day's journey, and they were sure they gave him more than he collected' (Lady Raffles, 1830:357). Catalogue Nos. 23–29 were collected near Simawang, and Nos. 42–43, 45, and 52–53 at Suruaso and Pagarruyung on 23–24 July. On the return journey No. 56 was collected on 27 July at Peninggahan on the western side of Danu Singkarak, and Nos. 59, 60–63, and 67 between 27 and 30 July in localities from Peninggahan and Pinang. The party arrived back at Padang on 30 July and Catalogue Nos. 69–71 were collected from Padang Head on that or the

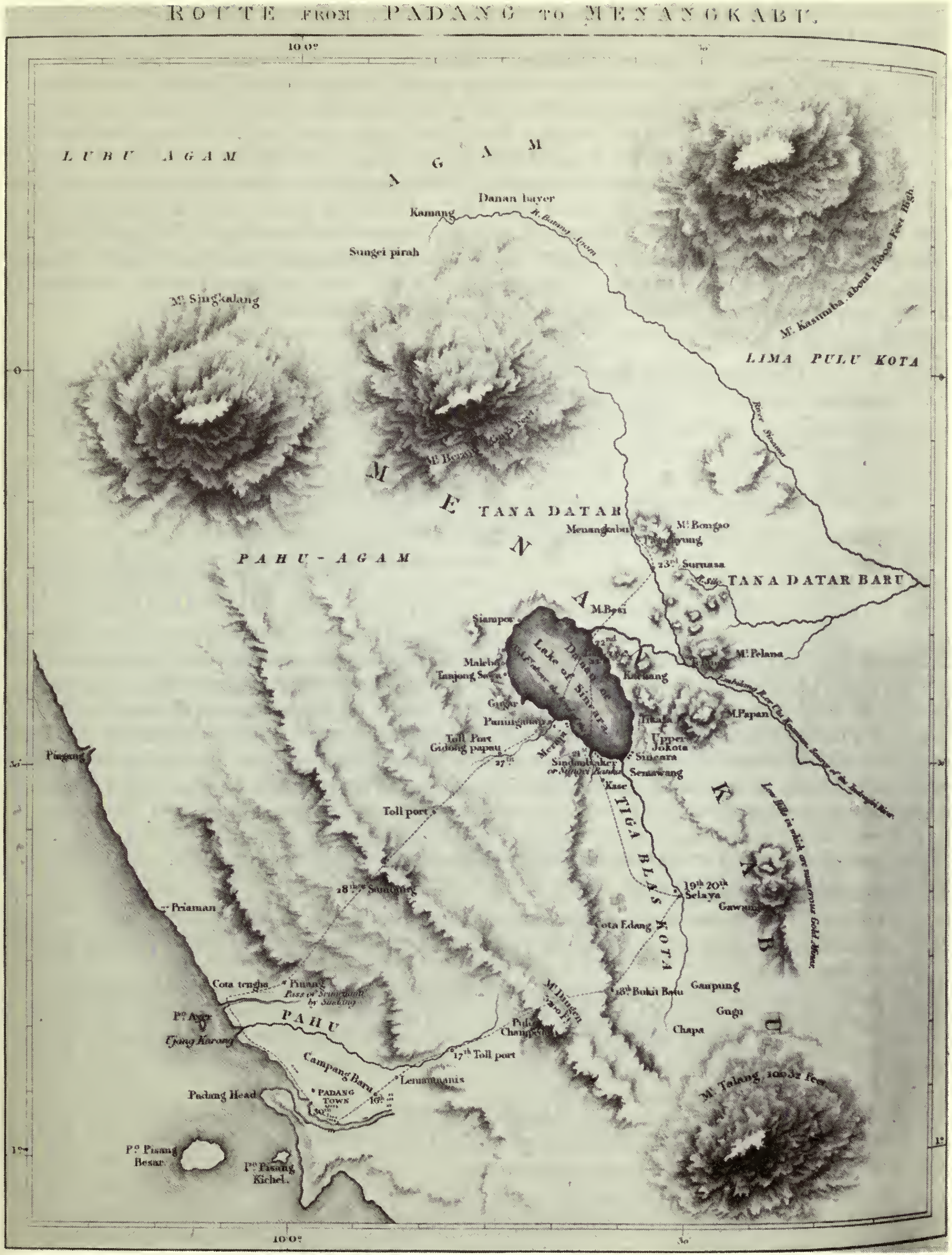
ROUTE FROM PADANG TO MENANGKABU.
10.0°
30'
0
1°
LUBU AGAM
AGAM
Kamang
Danau bayer
R. Batang Aroun
Sungei pirah
Mt. Singkalang
Mt. Kasumba, about 11000 Feet High
LIMA PULU KOTA
River Sinamar
Mt. Berapi
MENANGKABU
TANA DATAR
Menangkabu
Mt. Bongao
Pagaruyung
23rd Surusa
TANA DATAR BARU
PAHU-AGAM
M. Besi
Siampor
Malebo
Tanjong Sawa
Gugur
Paninggahan
Toll Port
Gidong papau
27th
Lake of Sinyara
Danau or
Mt. Pelana
Kacang
Tikala
M. Papan
Upper Jokota
Sincara
Sindangkaker or Simpan Banda
Senawang
Kase
TIGA BLAS KOTA
Low Hills in which are numerous Gold Mines
Toll port
28th Sumbing
Priaman
Pingang
19th 20th Selaya
Gawang
Cota Edang
Cota tengha
Pinang
Pass of Sumbing by Sunking
PAHU
Pº Ayer
Ujung Karang
Mt. Dungen
Pulu Champedak
18th Bukit Batu
Gaupung
Guga
Chapa
17th Toll port
Campang Baru
Lemamanis
PADANG TOWN
16th
30th
Padang Head
Mt. Talang, 10032 Feet
Pº Pisang Besar
Pº Pisang Kichel.

Fig. 6 Map showing the journey made by Horsfield in the company of Sir Stamford and Lady Raffles from Padang to Pagarruyung in July 1818. The map was published in January 1830 by John Murray, London, and appeared in Lady Raffles' *Memoir of the life and public services of Sir Thomas Stamford Raffles, F.R.S. &c.* (London, 1830).

following day, when the ship *Lady Raffles*, with Horsfield, Raffles and Lady Raffles on board, sailed on the return voyage to Benkulen.

Altogether seventy-one specimens from Sumatra are listed in Horsfield's catalogue in the India Office Library, London, but the catalogue printed below represents only a selection of rock specimens from Sumatra made by Horsfield after his return to Benkulen on 3 August 1818 for C. M. Ricketts (1776–1867) in Calcutta. The latter was a cousin of Lord Liverpool who had served as Secretary of the Public Department and later of the Political and Commercial Department in Calcutta before becoming a member of the Bengal Council in 1819. He was a Fellow of the Geological Society of London and after 1820 a Fellow of the Royal Society. Judging by a letter which Horsfield wrote from Benkulen to John Fendall (1760–1825) on 18 August 1818, on the eve of his departure for Java, Ricketts had requested geological specimens from Indonesia and these were now despatched to Calcutta via Fendall, who had been Raffles' successor as Lieutenant-Governor of Java in 1816, and who was personally known to Horsfield:

> Respected Sir!
>
> I have made a small selection of mineralogical specimens from the collection we made during our excursion to Menangkabu agreeably to the memorandum of Mr Ricketts enclosed in your letter, which I request you to present to that gentleman with my respectful compliments. I have added a catalogue, corresponding to the numbers of our mineral catalogue. Should it be in my power of ever returning to Java, I will supply you with a similar selection of descriptive geological specimens from that Island.
>
> I have the honour to remain
> Respect Sir
> Your obedient & obliged servant,
> Thos Horsfield

This collection is now in the British Museum (Natural History), with the above letter, having been presented by the Geological Society in 1911 in circumstances outlined by Campbell Smith (1928) and Moore (1982). It seems likely that the Geological Society came into possession of the collection from Ricketts during the 1820s, probably before he was appointed Consul-General to Lima in 1827. In any event, this sub-collection is all that remains of the rock specimens collected by Horsfield in Sumatra, and is for that reason of particular interest. As the collection was registered at the British Museum (Natural History) in 1911 the numbers bear little relation to those of the Java collection.

Catalogue of descriptive mineralogical specimens for Mr Ricketts Esq

2. *Amygdaloid from Gedong beo*
   [BM 1911, 1350 (1), weathered amgydaloidal lava. Collected 17/18 July 1818.]
5. *Trappian stone separating in rhomboidal and parallel fragments found between Gedong beo and Pulo Champedda*
   [BM 1911, 1350 (2), slightly weathered granite gneiss or granite. Collected 18 July 1818.]
8. *Amygdaloid from a volcanic plain called Danu tega-*[blas?]
   [BM 1911, 1350 (3), agglomerate.]
9. *Pebbles of various kinds; from the same place*
   [BM 1911, 1350 (4), weathered granitic rock.]
12. *Obsidian found between Solok and Sindang-baker*
   [BM 1911, 1350 (5), obsidian. Collected 21 July 1818.]
18. *Pumice from the lake or Danu at Sindang-baker*
   [BM 1911, 1350 (6), pumice. Collected 21 July 1818.]
19. *Cellular rock; approximately composed of quartz and hornblende from the borders of the lake at Sindang-baker*
   [BM 1911, 1350 (7), a siliceous deposit with a mantle of quartz crystals. Collected 21 July 1818.]
22. *Pebbles from the borders of the lake on the west side near Sindang-baker*
   [BM 1911, 1350 (8), amygdoidal weathered lava. Collected 21 July 1818.]

23. *Pebbles from the borders of the lake on the east side near Semawang*
[BM 1911, 1350 (9), altered quartz porphyry. Collected 22 July 1818.]

24. *Impure limestone mixt with particles of* [illegible] *rock. From the eastern borders of the lake*
[Specimens missing]

25. *Imperfect granite from the aclivities of the hill between the landing place and the village of Semawang*
[BM 1911, 1350 (10), plagioclase-quartz-muscovite schist. Collected 22 July 1818.]

26. *Fragments of rock consisting of Quartz and Feldspar the latter of a greenish color. From the same hill—See No 25*
[BM 1911, 1350 (11), greenish quartz-epidote rock. Collected 22 July 1818.]

27. *Fragments of rock of Quartz and Feldspar—the latter of a reddish color—(See No 25) from the same hill*
[BM 1911, 1350 (12), reddish quartz-bearing rock. Collected 22 July 1818.]

28. *Ochreous brown Iron Stone; passing into decomposed Granite and into a yellow ochreous deposition from* [water?]—*From the same hill (See No 25)*
[BM 1911, 1350 (13), contorted quartz-muscovite schist. Collected 22 July 1818.]

29. *Iron-ore—From the summit of the hill See No 25—near the village*
[BM 1911, 1350 (14), dense quartz-bearing sedimentary ironstone with pyroclastic components. Collected 22 July 1818.]

35. *Iron-ore—From Gunning-bezi near Semawang*
[BM 1911, 1350 (15), ironstone similar to the above. Collected 22 July 1818.]

42. *Amygdaloid* [added later: *and sandstone*] *varieties of this substance from the hills between the northern banks of the Indragiri river and Suruwasa*
[Two specimens. BM 1911, 1350 (16), medium to coarse-grained lithic sandstone with a ferruginous cement. BM 1911, 1350 (17) is coarse yellow conglomerate. Collected 22 July 1818.]

43. *Varieties of Sandstone and stone of aqueous deposition. From the same hills (No 42) found in conjunction with the amygdaloid*
[BM 1911, 1350 (18), tuff.]

45. *Feldspar and imperfect granite—Found between Indragiri river and Surawasa*
[BM 1911, 1350 (19), a yellow quartz-muscovite-bearing greywacke. Collected 23 July 1818.]

52. *Pebbles. From the bed of the river Sungi-mas at Pagaruyung. Note most of these pebbles are basaltic and trappean; but with them are mixt others of a very compact and imperfect Granite following much of the character of Syenite, which indicate the continuation of the trappean and primitive parts of Sumatra towards the source of the river*
[Two specimens. BM 1911, 1350 (20), a leucocratic gneiss. BM 1911, 1350 (21) is andesite. Collected 24 July 1818.]

53. *Quartzose Iron-ore From the bed of the same river—see No 52*
[BM 1911, 1350 (22), ferruginous stained white quartz. Collected 24 July 1818.]

56. *Fragments of primitive rock consisting of Granite passing into gneiss and micaceous schistus found in great abundance on several of the first* [ascents] *from the lake at Pininggahan towards Gedong Pappau and bounded by extensive masses of Marble and Limestone*
[BM 1911, 1350 (23), calcite-sericite-bearing metamorphosed pyroxene andesite. Collected 27 July 1818.]

59. *Limestone/Marble/between Paninggahan and Gedong beo*
[BM 1911, 1350 (24). This specimen is labelled 60 on the rock which is a limestone with a calcite vein. There is no specimen 59.]

60. *Calcareous spar—From the same place (59)*
[No specimen, see above. There is a specimen 61 which is BM 1911, 1350 (25) and is a crystalline limestone. Probably collected 27 July 1818.]

62. *Cellular Limestone. From the same route (59)*
[BM 1911, 1350 (26), calcareous breccia or concretion.]

63. *Slaty limestone. From the same route (59)*
[BM 1911, 1350 (27), quartz-bearing limestone. Collected 27 July 1818.]

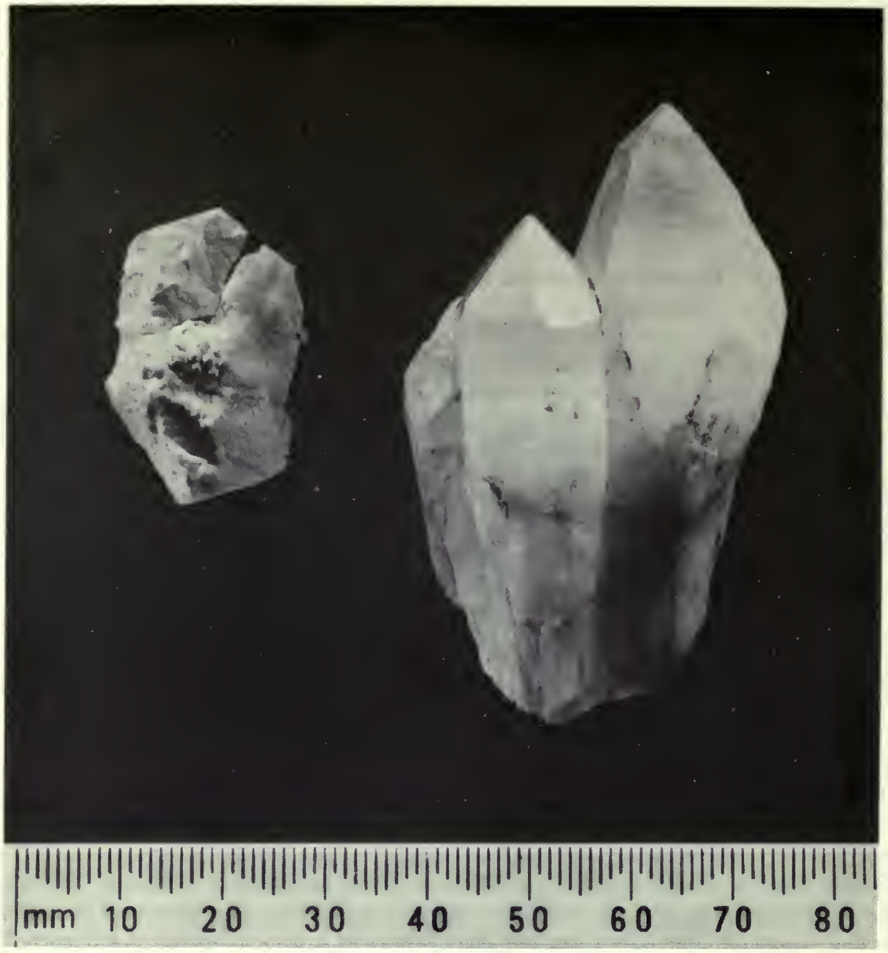

Plate 5 Two of Horsfield's geological specimens from Indonesia. *Left*, part of a Miocene crustacean (? Xanthid, crab) from Java (Horsfield's Java catalogue 177). *Right*, a cluster of quartz crystals from Padang Head, Sumatra (Horsfield's Sumatra catalogue 69).

64. *Fragments of Granite and trappean pebbles from the river of Gedong pappau*
[Two specimens. BM 1911, 1350 (28), muscovite granite fragment. BM 1911, 1350 (29) is a leucogranite. Collected 27 July 1818.]
67. *Stone of watery deposition from the ridges between Sambung and Pinang*
[BM 1911, 1350 (30), an altered tuff. Collected 29 July 1818.]
69. *Rock crystal from Padang head*
[BM 1911, 1350 (31), a cluster of quartz crystals. Probably collected 30 July 1818. Illustrated in Plate 4.]
70. *Calcedony, trap &c from Padang head*
[BM 1911, 1350 (32), three small cherty pebbles. Collected 30 July 1818.]
71. *Iron Pyrites—from Padang head*
[BM 1911, 1350 (33), a sample of small cubic crystals of pyrite. Collected 30 July 1818.]

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Notes

1 There is abundant information on Timothy Horsfield Sr and the Moravian Church in the United States in Jordan (1909*a*) and Yates *et al.* (1968). Timothy Horsfield Sr was involved in the building of the Moravian immigrant ship *Irene* at Staten Island in 1744–48.

2 The Moravian Church had its origins in Czechoslovakia in late Medieval times. It was forced underground after the Thirty Years War in Europe (1618–48), but revived in Germany, the Netherlands, and to some extent England, as a result of the patronage of Count N. L. Zinzendorf (1700–1760) in the eighteenth century. Timothy Horsfield Sr (see Note 1) was the friend of two Moravians of note, David Nitschman (1696–1772) and Peter Boehler (1712–1775). John Wesley (1703–1791), attributed his own conversion to Boehler during the 1730s.

3 Horsfield's collection is not the only Indonesian geological collection of this period in the British Museum (Natural History). Captain Basil Hall (1788–1844) R.N., son of the pioneer experimental mineralogist Sir James Hall (1761–1832), collected in Java in 1816.

4 Horsfield's appointment to the Museum of the English East India Company was influenced by a letter of recommendation sent by Raffles to the Directors of the Company (Lady Raffles, 1830:629), and his cordial reception in London was due to other letters of recommendation which Raffles addressed to members of the scientific community in the capital, including one to Sir Joseph Banks, President of the Royal Society (*DTC*, 20, fols. 105–07, letter dated 14 August 1818).

5 Also buried at Chelsea is Peter Boehler (see Note 2).

6 Horsfield had read widely on geological matters of his time. In addition to the writings of Werner and De Saussure we know that he was familiar with E. D. Clarke's *Travels in various countries of Europe, Asia, and Africa*, London, 1810–23 (see Note 7). He had also read Sir George Steuart Mackenzie's *Travels in the island of Iceland, during the summer of the year* MDCCCX, London, 1811 (Horsfield, 1816*b*:108).

7 Horsfield's reference to Pallas and Clarke is interesting. Professor T. G. Vallance has drawn our attention to the fact that Clarke in his *Travels* mentions mud volcanoes in southern Russia. A possible explanation is set out below and if correct, confirms our view that Horsfield was well read (see Note 6):

P. S. Pallas (1741–1811) in English translation from German (*Travels through the southern provinces of the Russian Empire, in . . . 1793 and 1794*, London, 1803, **II**:319–30) refers to a mud volcano called Kuuk-Obo or Prekla on the east shore of the straits separating the Sea of Azov and the Black Sea. Pallas records that on 27 February 1794 smoke and flame burst from this area followed by streams of boiling mud, which he later examined. E. D. Clarke (1769–1822) visited the area some ten years after Pallas on his Russian journey (*Travels in various countries of Europe, Asia, and Africa*, London, 1810–23, **I**:409) and commented on the phenomenon.

From a geological standpoint, mud volcanoes are known to be associated with diapiric structures in oilfields and gas seepages. The area described by Pallas and Clarke is an oilfield, and, interestingly, Pallas refers to an eyewitness account of March 1794 to the effect that vapour and mud mingled with rock-oil was still ascending. There is thus reason for thinking that the mire wells of Pallas and Clarke are associated with hydrocarbon seepage.

8 Mineralogical maps were produced in the eighteenth century in France, England, Germany, Russia, and Sweden. (For discussion see V. A. Eyles, 'Mineralogical maps as forerunners of modern geological maps' *The Cartographic Journal*, December 1972, pp 133–5. This is a reprint from *Geologie* **20** of 1971.) An important difference between a mineralogical map and a geological map is that the age of the rock is an important consideration in geological maps.

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The Journal of Peter Good

Gardener on Matthew Flinders Voyage to Terra Australis 1801—03

Edited with an introduction by Phyllis I. Edwards

July 1981. 213pp. Illustrated
Bulletin of the British Museum (*Natural History*)
Historical Series Vol. 9
Paper covers, £24.00

The Peter Good *Journal* came into the possession of the British Museum with the manuscripts of Robert Brown (1773–1858), first Keeper of the Department of Botany (initially named the Banksian Department). It was transferred, in 1881, to the newly established British Museum (Natural History) at South Kensington. Associated with the *Journal* are copies of the seed lists Good sent to Sir Joseph Banks (1743–1820) and a slightly different version of part of his *Journal*. Although the Good *Journal* is mentioned by J. Britten and G. S. Boulger in their *A biographical index of deceased British and Irish botanists* (2nd ed., 1931), I have found no other reference to it. From reading only a few pages of the Good *Journal* it is evident that it is of both scientific and historical importance and a valuable supplement to Matthew Flinders own published account *A Voyage to Terra Australis*, 1814.

(Phyllis Edwards: Foreword to *The Journal of Peter Good*)

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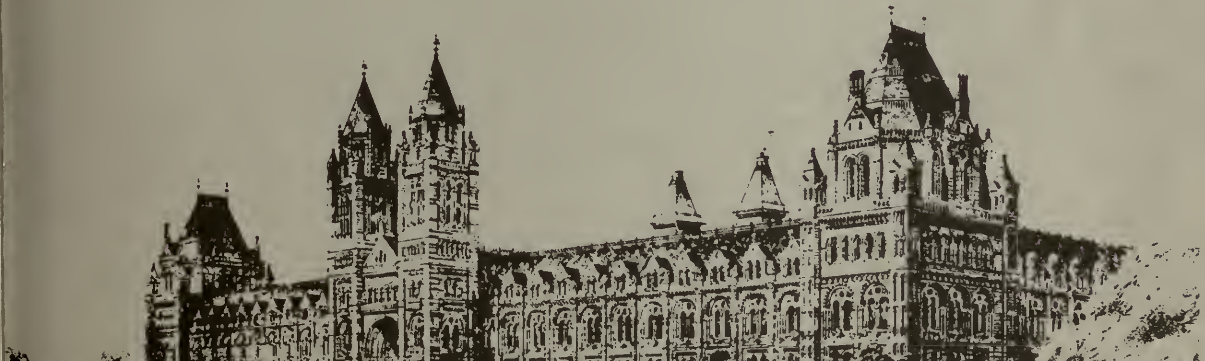
Bulletin of the British Museum (Natural History)

The British Museum (Natural History) Celebrating one hundred years at South Kensington 1881–1981



Historical series Vol 10 No 4 24 June 1982

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Cover illustration. Sketch of the proposed Natural History Museum in South Kensington by Maurice Adams, 1879, after the water-colour drawing by Alfred Waterhouse.

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Issued 24 June 1982

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The British Museum (Natural History) Celebrating one hundred years at South Kensington 1881–1981

Compiled and edited by Anthony P. Harvey

Department of Library Services, British Museum (Natural History), Cromwell Road, London SW7 5BD

Introduction

On April 18 1881 the doors of the newly built Romanesque building facing Cromwell Road, South Kensington, opened to admit the first visitors to the vastness of the Central Hall of the British Museum (Natural History). There was no formal opening, for the Natural History Museum was considered as merely a new location for the natural history collections housed, since 1756, in the British Museum at Bloomsbury, some 3 miles away. Indeed, until the British Museum Act of 1963 the two Museums shared the same Board of Trustees.

By the time the collections were moved from Bloomsbury to South Kensington the Department of Natural and Artificial Productions—one of the three foundation departments of the British Museum and the one to which Sir Hans Sloane's natural history specimens were assigned—had grown by presentation, purchase and exchange into the separate departments of Zoology, Geology (since 1956 Palaeontology), Mineralogy and Botany.

Since 1881 only one more scientific department has been formed and that from a natural maturing of the 'Insect Room' of the Department of Zoology into the Department of Entomology in 1913. However, the Museum collections have grown from a few million items to more than 50 million; the number of visitors from 231 284 in 1881 to a peak of over three million in 1977.

Today the Museum has two functions: curation of the national collections and associated taxonomic research, and public education. Taxonomic research, the identification and classification of animals, plants, fossils and minerals, is of considerable importance in many applied fields where it is essential to have an exact knowledge of the identity of organisms and minerals, e.g. in medicine, veterinary science, agriculture, forestry, fisheries, ecology, conservation, the storage of perishable products, and in the mining and oil industries. The Museum is uniquely placed, with its collections from all over the world, to undertake such research work.

The scientific collections and work of the Museum are supported by the 750 000 volumes and 9000 current periodicals in the Department of Library Services, and by the skills in biometrics, electronic data processing, electron microscopy, photography, publishing and specialist workshops of the Department of Central Services, while the Department of Administrative Services provides support to all staff.

Public education, through exhibitions, publications and various services to school children and other visitors, is the responsibility of the Department of Public Services. A major new exhibition scheme was initiated in 1972 and to date five phases have been completed, the latest on the *Origin of Species* being opened in centenary year.

Since its foundation in 1753 and more especially in the hundred years at South Kensington the Museum has grown to become a major international centre for research in the earth and life sciences; its collections from those of an enthusiastic amateur to a world renowned data bank for the natural world; and its public exhibitions from dimly-lit and crowded cases to galleries which use the most modern techniques and technology to teach an understanding of some of the major biological themes to millions of visitors.

Bull. Br. Mus. nat. Hist. (hist. Ser.) **10**(4): 117–140

Issued 24 June 1982

Left. Sir Hans Sloane (1660–1753), whose collection formed the basis of the British Museum. This portrait by Sir Godfrey Kneller, shows Sloane aged about fifty (Courtesy of the Trustees of the British Museum). *Centre.* Sir Richard Owen (1804–1892), Superintendent of the Natural History Departments of the British Museum 1856–1884, aged about eighty. *Right.* Alfred Waterhouse (1830–1905), at the age of fifty-five, the architect of the Natural History Museum building, from a portrait by Sir William Orchardson.

A centenary year

Planning for 'Centenary Year' began in June 1976 and culminated in a wide range of events throughout 1981, which reflected the diverse activities of the Natural History Museum.

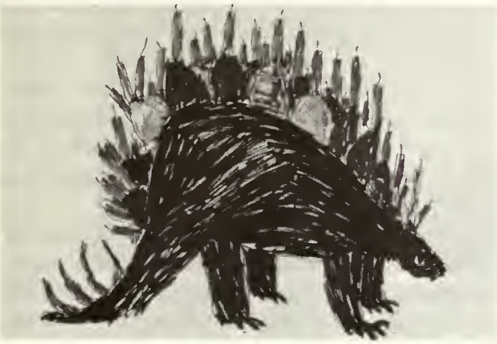
Appropriately, one of the first events was a national competition to design a poster to publicize the centenary. In collaboration with the BBC TV programme *Blue Peter* young people were invited to submit their designs. Of the 33 000 entries received, the judges Sir Hugh Casson, David Attenborough and Roger Miles chose the candle-adorned *Stegosaurus* by fourteen year old Amanda Taylor as the overall winner. Amanda thus became the first mentally handicapped person to win a national art competition. The Museum also issued a medallion and a special logo was used on correspondence throughout the year.

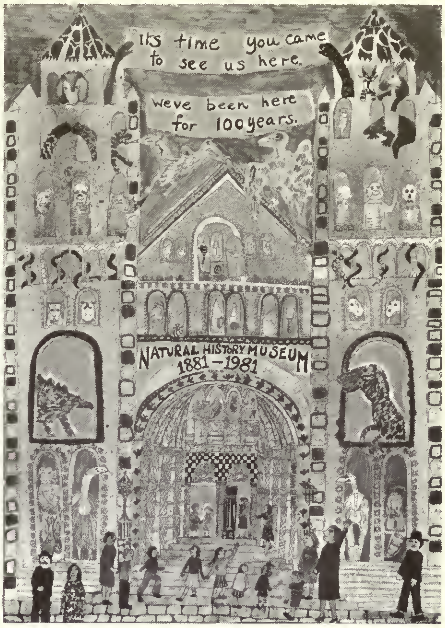
Nineteen eighty-one began with the opening of the exhibition *Nature Stored Nature Studied*. Using books, manuscripts and drawings from the collections of the Department of Library Services and with specimens from the scientific departments, the displays described the growth of the collections. Among the great expeditions featured were: Captain James Cook's first voyage of circumnavigation; the voyage of HMS *Beagle*, with its naturalist Charles Darwin; and the pioneering voyages of oceanographic discovery of HMS *Challenger*. An audio visual programme specially prepared in the Museum took the visitor 'behind the scenes' and explained the importance of the collections and the taxonomic research carried out on them, as well as showing the way in which the libraries support the work of the Museum.

The New Exhibition Scheme, which won for the Museum the title 'Museum of the Year 1980' and led in 1981 to a special commendation in the competition for the European Museum of the Year 1980, added another element to the four already open to the public with the opening of the *Origin of Species* in May 1981.

As a contribution to the International Year of Disabled People an exhibition on British natural history, designed for the blind, was open during October and November. The exhibition offered the opportunity to blind and partially sighted visitors to handle specimens; a specially prepared tape programme was also available for their use.

Natural History Museum
1881 1981




its time you came to see us here.
weve been here for 100years.
NATURAL HISTORY MUSEUM 1881–1981

Top left. Amanda Taylor (aged 14), top prize-winner in the BBC TV *Blue Peter* Natural History Museum Centenary Poster Competition, is pictured second from the left with the *Blue Peter* team, Simon Groom, Peter Duncan and Sarah Greene. (Courtesy of the British Broadcasting Corporation). *Bottom left.* Amanda Taylor's winning poster, a candle adorned *Stegosaurus*. *Right.* Lucy Butler was a winner in the 8–10 age class. Her poster was made into greeting cards to sell in the Museum bookshop.

The large collection of the 18th century

The centenary exhibition *Nature Stored Nature Studied* showing collections, conservation and allied research at the British Museum (Natural History).

A more personal contribution to the cause of the disabled was the successful 100 mile sponsored run, from the outskirts of Bath to the Museum, by David Cooper of the Department of Zoology on July 26. He raised £1130 to be divided between Arthritis Care and the Spinal Building Appeal Fund for Stoke Mandeville Hospital.

In April the Museum joined with the Systematics Association and the Society for the Bibliography of Natural History (which was founded in the Museum in 1936), in promoting two international meetings. With the Association a symposium on the theme *Time and space in the emergence of the biosphere* was held, and with both the Association and the Society a conference entitled *History in the service of systematics.*

Three special lectures were arranged by the Scientific Officers' Association (which can trace its origins back to the pre-1919 Natural History Museum Staff Association) on the general themes of taxonomy and science.

The British Association for the Advancement of Science celebrated both its own 150th anniversary and the Museum's centenary by holding a session entitled *Animal Identities* at its annual meeting. Papers from three members of the Museum staff were included. A small exhibition showing the close connections which have existed between the Association and the Museum was held from July to December in the Museum.

The major 'scientific' event of the Museum's centenary was in November with the Open Days. All five scientific departments together with the libraries mounted a series of 145 displays which represented the wide range of research and investigation being undertaken in the Museum. In all more than 3000 individuals from universities, polytechnics, schools (sixth-formers), governmental organizations, industry—professionals and amateurs—passed along the corridors and through the storage areas and studies. Each of the exhibits was manned by an appropriate member of staff and each had a specially prepared handout. General descriptions of the Departments were also available. In conjunction with the Open Days the Photographic Section of the Department of Central Services mounted an exhibition in the Conversazione Room and also the *Museum in Focus*, which showed examples of the work produced. The latter was printed and displayed by Kodak Limited.

Certainly not all the events of the year were based on 'work'. For example on Easter Saturday—Centenary Day—each of the first 100 children through the doors received, through

A blind person visits the special British natural history exhibition for the blind and partially sighted, open during October–November.

David Cooper of the Department of Zoology welcomed by his wife at the Museum on 26 July after completing his 100 mile sponsored run to mark the International Year of the Disabled.

The Museum won a special commendation in the competition for European Museum of the Year, 1980. Here the Director, Dr R. H. Hedley (right) receives a plaque from Mr H. J. de Koster, President of the Parliamentary Assembly of the Council of Europe, at the Guildhall, London, on Monday 23 March 1981. (Courtesy of B. Mackenzie).

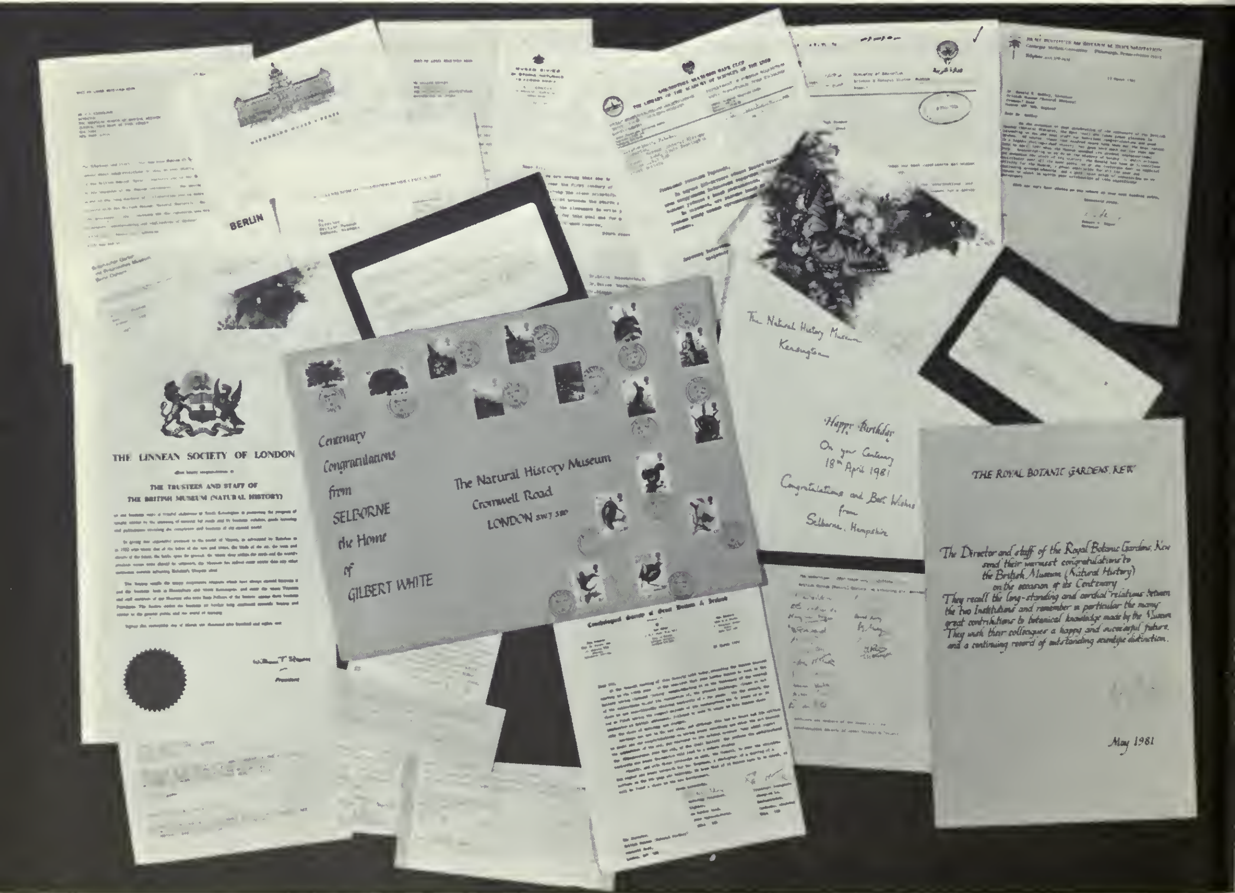
the generosity of the Zoological Society of London, a ticket entitling them to free admission either to the London Zoo or Whipsnade. Later in the year the children of Cockernhoe village school—also celebrating its centenary in 1981—visited the Museum attired in Victorian costume, for a Victorian natural history tour by 'Victorian' museum staff.

Left. Children of the Cockernhoe Village School, near Luton, Bedfordshire, visited the Museum on 6 November dressed in Victorian costume. The Museum's guide-lecturer, also suitably dressed, gave a tour of the galleries. *Right*. The first one hundred children through the gates of the Museum on 18 April were given tickets for free admission to London Zoo.

On 23 October the Central Hall rang to the staff 'letting their hair down' at the Staff Centennial Celebration with dancing, music, and a buffet complete with a cake in the shape of the Museum. The event was organized jointly by the staff side of the Museum Whitley Council and the Sports and Social Association. The Museum Sports and Social Association is 61 years old and was a founder member of the Civil Service Sports Council.

Centenary Year and the preceding one were busy for all the staff. However, the rewards came with the successful completion of the celebrations; with praise for the special publications, and the temporary and permanent exhibitions; widespread interest and acclaim for the Open Days; and perhaps most satisfying of all in these times of financial restraint a seventeen percent rise in the number of visitors.

Staff centenary social evening in October, held in the Central Hall.



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THE TRUSTEES AND STAFF OF
THE BRITISH MUSEUM (NATURAL HISTORY)

Centenary
Congratulations
from
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of
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The Natural History Museum
Kensington

Happy Birthday
On your Centenary
18th April 1981
Congratulations and Best Wishes
from
Selborne, Hampshire

THE ROYAL BOTANIC GARDENS, KEW

The Director and staff of the Royal Botanic Gardens, Kew
send their warmest congratulations to
the British Museum (Natural History)
on the occasion of its Centenary
They recall the long-standing and cordial relations between
the two Institutions and remember in particular the many
great contributions to botanical knowledge made by the Museum
They wish their colleagues a happy and successful future
and a continuing record of outstanding scientific distinction.

May 1981

Montage of some of the congratulations received by the Museum.

Centenary Open Days—examples of displays

Department of Zoology, exhibit on the 'diversity of jumping spiders', and the use of reference indexes to provide quick access to information for research and to answer enquiries.

24 Co-evolution of Mammals and their Lice

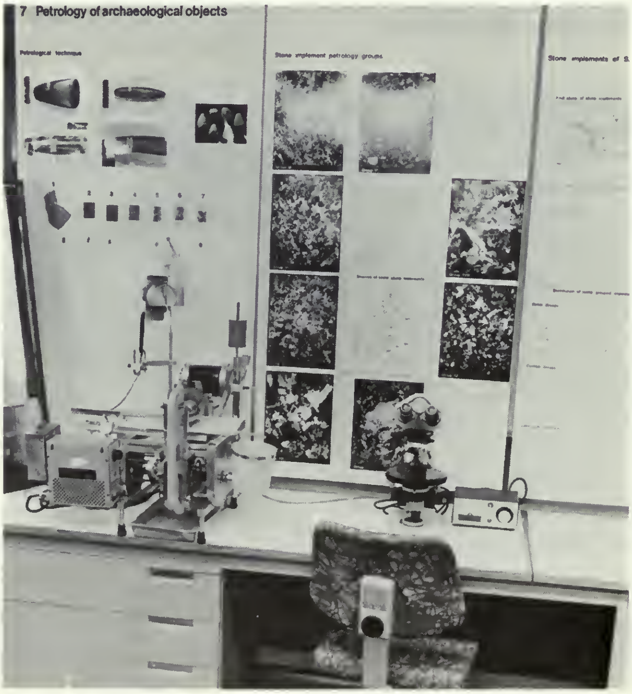
Department of Entomology, exhibit on 'co-evolution of mammals and their lice', and identification and advisory services to the public.

11 Identification and advisory services

Department of Palaeontology, introduction to work of the Departmental Laboratory, and a typical exhibit, 'corals, coloniality and symbiosis'.

orals coloniality and symbiosis
3 Analysis of colony organization
2 Specification of colonies

Department of Mineralogy, introducing visitors to the Department, and an exhibit on 'petrology of archaeological objects'.


7 Petrology of archaeological objects
Petrological technique
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11 Pollen studies in taxonomy

Department of Botany, introducing visitors to the Department, and an exhibit on 'sources of some recent acquisitions'.

Sources of some recent acquisitions

Department of Library Services mounted exhibitions in the General Library on 'Scientific explorers and exploration in the eighteenth and nineteenth centuries', and on various themes in the departmental libraries, for example, the 'History of the Department of Botany' by the Botany Library.

The centenary central event 27 May

Professor Sir Andrew Huxley PRS opened the new permanent exhibition *Origin of Species*. At 11.30 am speeches were delivered by Professor T. R. E. Southwood FRS, Chairman of Trustees and Sir Andrew in the gallery to approximately 180 guests. In the afternoon HM The Queen accompanied by HRH The Duke of Edinburgh paid an official visit. Arriving at 3 o'clock HM The Queen unveiled a plaque to commemorate the Museum's centenary and received a presentation of specially bound centenary publications. The Royal Party then viewed the *Origin of Species* exhibition.

Meanwhile staff and guests, numbering some 1260 were given tea and viewed the new exhibition after HM The Queen had gone into the Conversazione Room. An Open University film entitled *The Natural History Museum* and introduced by Mark Girouard was shown in the Lecture Theatre. Amongst the guests were representatives from Government, other scientific institutes, universities and museums. There were over seventy guests from overseas and foreign embassies.

In the Conversazione Room HM The Queen and HRH The Duke of Edinburgh viewed a display of ten scientific exhibits by Museum staff, and had an opportunity to talk with those manning the displays, heads of departments and other senior staff, as well as Staff Side, Sports and Social Association representatives, and those involved in the production of the centenary publications. Before leaving the Museum the Royal Party signed the Visitor's Book and a large coloured photograph of HM The Queen and HRH The Duke of Edinburgh.

Professor Sir Andrew Huxley PRS (right), opened the *Origin of Species* gallery in the Museum on 27 May 1981. Seen here with Professor T. R. E. Southwood FRS, Chairman of Trustees of the British Museum (Natural History) in a re-creation of Charles Darwin's study at Down House in Kent.

Opening of the *Origin of Species* exhibition

Welcoming address by Professor T. R. E. Southwood FRS, Chairman of Trustees

It is indeed a great privilege and honour to welcome all our guests on behalf of the Trustees, Director and Staff of the Museum. We much appreciate the presence of representatives of many foreign museums and extend a very special welcome to them and to our Guest of Honour, the President of the Royal Society, Sir Andrew Huxley, who has kindly agreed to open this, our centenary exhibition, on the *Origin of Species*.

The topic of evolution, the theme of this exhibition, highlights the distinction—and confusion—between facts and theory.

I should like to place my remarks on this occasion within a somewhat allegorical framework. I hope this will illustrate the distinction between facts and theory. Let us imagine some Martian biologists looking at this gathering.

Firstly they would note that there was a cluster of *Homo sapiens* and looking more closely—perhaps with special 'zeta-ray equipment' at the names and addresses in our pocket books—that we have come from many parts of the country, indeed from many parts of the world and that we represent different professions and different age groups. They would conclude that this was an aggregation of *Homo sapiens*. These would be the *facts*, then the investigators would develop a *theory* to explain this important and unique occasion.

In formulating the theory the Martian team would sieze on another fact, it is now 100 years since the British Museum (Natural History) moved to South Kensington. They would propose the 'centenary theory of aggregation'.

However, once this paper was published an iconoclast would write a short letter to the leading scientific weekly and observe that 'The Centenary Theory' must be fallacious. This is a unique and clearly important occasion, but the significance of a hundred years is largely spurious—based simply on the method of numeration used by *Homo sapiens*. Surely, they would argue, representatives of foreign museums, research councils and all these others would not gather to celebrate merely the accretion of three digits in the age record.

So other theories would be published—one would stress the importance of the new exhibition on the *Origin of Species*. Evolution is the concept most closely connected with the day-to-day work of the Museum. It has been the major unifying idea in biology for more than a century. The first exhibition on this subject was set up by the second Director, Sir William Flower, and the last by Sir Gavin de Beer in 1958.

Other Martian scientists would decry the total population approach of the above theories and they would commence a detailed analysis of the participants. They would note the presence of the President of the Royal Society. The visit of the PRS is a most important occasion at the British Museum (Natural History), for the Museum has always had a strong association with the Society. Its founder, Sir Hans Sloane was a Fellow of the Society for 68 years; the Society donated its own collections to the Museum in 1781, just 200 years ago—a fact that would give rise to a subsidiary theory—'the bicentenary of the R.S. donation'. The supporters of the main 'Royal Society theory' would note that until the 1963 Act the PRS was always a Trustee—now the President is again a Trustee and everyone is delighted and celebrating.

A fourth group would make a more careful scrutiny and they would find our guest of honour, the President of the Royal Society, had particular family connections both with the Museum and with the theory of the Origin of Species as propounded by Darwin. They would note, Sir Andrew, that your grandfather, T. H. Huxley, often referred to as 'Darwin's bulldog', was an active Trustee and presented Darwin's statue on behalf of subscribers, to the Museum. His own statue was unveiled in 1900 in the presence of the then Prince of Wales. Your brother, Julian Huxley, was the architect of the neo-Darwinian synthesis.

Most perceptive Martian scientists would support one of these theories for the origin of today's gathering, but a few others claiming to apply Occam's razor, and observing the luncheon to follow, would postulate that this was merely a prefeeding aggregation!

We all have evidence for the validity of one or more of these Martian theories and we probably recognise that a single reductionist theory for today's gathering is unsatisfactory.

This exhibition seeks to emphasise the *fact* of evolution, of the diversity of Nature. It aims to provide the lay-visitor with a Darwinian view of the whole organisms that have in the past or do at present populate our biosphere. On behalf of the Board of Trustees I would like to congratulate the many staff, about 70, who under Dr Miles' leadership have been responsible. My thanks go to them all and to the many outside the Museum, including our partners in the Property Services Agency, who have contributed to this fine exhibition.

About this fact that the biosphere has evolved and is evolving, there is *no* argument as our multi-authored volumes on evolution *Chance, change and challenge* so clearly show.

The details of the Theory of Natural Selection that seeks to account for the diversity, have always been controversial. Our perception of many aspects is now different from that of Darwin. As this subject is so much at the centre of the Museum's research, one would expect its staff to be active in the exploration of new concepts or revolutionary interpretations—something would be wrong if they were not.

Returning to the theory, I would like to express a personal view: I believe the allegory I have presented of the extra-terrestrial theories for our aggregation is a valid, if slightly frivolous, model. Our aggregation, our gathering today, has several causes, some distant, some proximate. Likewise the Origin of Species is a composite theory, the basic mechanism is natural selection, but the detailed mechanisms will surely be varied and not mutually exclusive.

Sir Andrew, it is with much pleasure that I invite you to declare this exhibition open.

Address by Professor Sir Andrew Huxley PRS

As Professor Southwood has told you, the President of the Royal Society is no longer automatically a Trustee of the Natural History Museum, but he does still nominate to one of the positions on the Board of Trustees. My predecessor did not take the opportunity of nominating himself, but when his nominee conveniently retired just after my appointment, I was delighted to have that opportunity, and I took it. And I was equally delighted to be asked to perform today's ceremony since, as long as I can remember, I have had a strong attachment to this place, both from spending many days in it as a boy, and from the family connections that Professor Southwood spoke of. To most of my contemporaries and to succeeding generations, the rows which followed the publication of the *Origin of Species* in 1859 must seem 'old, unhappy, far-off things, And battles long ago', but for me they are much more real. My father was not quite old enough to have been a witness of the famous confrontation in 1860 between his father and the Bishop of Oxford, as he was born in the same year, but as a young man he met most of the protagonists of those battles. I almost felt that I knew them myself, both from the stories he told us of those days, and from reading their biographies and, especially, books such as my grandfather's essays.

As a centenary, today's event commemorates the opening of this Museum after the first stage of the transfer of the Natural History collections from the British Museum in Bloomsbury. The architect of the building itself was of course Alfred Waterhouse, and it is marvellous now to appreciate the details all over the building that used to be hidden under London grime. But the architect of the scheme as a whole, and the planner of many of its features, was Richard Owen. He was one of the greatest comparative anatomists of his time—indeed, of any time—but in my family he is particularly remembered as my grandfather's adversary in not one but several controversies—on the vertebrate skull in 1858, on the origin of species in 1860, and on the relation of man to the great apes in 1862. So, when asked to take part in an occasion which is partly in honour of Owen, I did have some slight scruples resembling those of Mr Collins in *Pride and Prejudice*: adapting the words of his First Epistle to the family at Longbourn, 'For some time I was kept back by my own doubts, fearing lest it might seem disrespectful to the memory of my grandfather for me to be on good terms with any one with whom it had always pleased him to be at variance'.

But in my case the hatchet was in fact buried long ago: T. H. Huxley was seconder of the appeal for a memorial to Owen, which took shape in the statue at the head of the main stairway here; he then spoke so eloquently of Owen's work as an anatomist that when Owen's grandson wrote his biography, he asked Huxley to contribute a section on Owen's anatomical work—and Huxley did so.

If Professor Southwood's Martians looked not only at this new exhibition but at articles about evolution and the classification of animals in the weekly scientific press, both of the last few months and nearer the time of the opening of this building, they could be excused for drawing a fifth conclusion, namely, that there is a cyclical component in scientific thinking. *Nature* has recently printed more than 30 letters centering around attacks on the scientific thinking of members of the staff of the Museum, and the correspondence has radiated into *New Scientist*, *Biologist*, and even across the Atlantic into *Science*. Now the basis of these attacks, which have to do with cladistic principles in classification, must be unintelligible to 99% of the readership of *Nature*. Because of my association with the Museum I have made a fairly serious attempt to understand this debate. I have been quite unable to comprehend the suggestion that cladism is somehow antagonistic to evolution, or that cladism is linked to the theory that evolution progresses by fits and starts, or that cladism is more Marxist than other styles of classification. And the implication that its supposed Marxist character is a reason against its acceptance in science is more completely irrelevant than anything else that I can remember reading in a serious journal.

The only point on which I have become clear is that the letters in *Nature* must conceal the real reasons why such strong emotions are expressed: there must be hidden factors at work, understood only by the taxonomists and evolutionists themselves—dissentions between those who prefer a more rigorous type of classification on the one hand and those who prefer a more informative one, and between taxonomists who work on different groups of animals.

And although there are healthy differences of view within the Museum—illustrated for instance in the book of essays entitled *The evolving biosphere*—it is not in this Museum that the animosities I have been referring to are to be found.

But the obscurities and the irrelevances in the recent debate in *Nature* are such that it is best described by a phrase applied by my grandfather to an earlier phase of the arguments on evolutionary matters. In 1894 William Bateson published his famous *Materials for the study of variation* and sent a copy to Huxley. In his thank-you letter to Bateson, Huxley said: 'How glad I am to see ... that we are getting back from the region of speculation into that of fact again. There have been threatenings of late that the field of battle of Evolution was being transferred to Nephelococcygia.' You will remember that Nephelococcygia was the city built by the Birds in Aristophanes' play, and it is the word which translates into 'cloud-cuckoo land'.

Well, I have been feeling that we have come full circle and that the recent debate in *Nature* was likewise in cloud-cuckoo land. Let us hope, however, that the cycle does not bring a repetition of what happened a few years after Bateson's book. More 'facts' of the very kind that was welcomed by Huxley led to the rediscovery of Mendelism—precisely the type of inheritance needed for Darwinian natural selection to operate. But instead of being recognised as such, it was regarded by most biologists as providing an alternative explanation for evolution, and Natural Selection went out of fashion for the best part of thirty years, till the work of J. B. S. Haldane and R. A. Fisher, of Sewall Wright and of Chetverikov, showed that the two theories were complementary to one another, not alternative, and the neo-Darwinian era began.

In passing, I might mention that in my own subject—muscle contraction—a tremendous amount of solid knowledge gained in the latter part of the nineteenth century—chiefly by means of the microscope—was eclipsed in the same sort of way, and at nearly the same date, by the rise of biochemistry. The eclipse was in fact longer-lasting—it went on for forty years or more—and it was more complete: the old knowledge was totally lost, the discoveries had to be made afresh, and it was only later that people came across the papers of the 1870s and 1880s describing these same phenomena.

Returning to Evolution, is there a danger that history will repeat itself and that neo-Darwinism will be eclipsed, perhaps by Molecular Biology, in the way that original Darwinism was eclipsed by classical Mendelian genetics? Let us hope not.

But how can we guard against such an event? I think the moral of what I have been saying is that simple solutions in biology are seldom complete solutions. This applies both to the way things actually work and to the way we think about them. Evolutionary change is brought about through natural selection working on Mendelian variation, not by either working alone, and other processes such as genetic drift and chromosomal accidents are probably important as well; in muscle contraction, essential events occur on the light-microscope scale as well as on the molecular scale; in classification we need to think in terms of grades as well as clades, as was pointed out by my brother Julian in the article where he proposed the word 'grade'; the proper emphasis on living as against fossil forms is different in different groups of animals.

If there is so much obscurity and irrelevance in the letters that have been appearing in *Nature*, why does *Nature* publish them? I think the answer is simple, and it is the same as the answer to the question 'Why does even *The Times* devote so much space to the Sutcliffe trial?'. It is that their respective readers enjoy these things. Again, I cannot express the matter better than was done more than a century ago during the first round of the evolutionary arguments. At the 1862 meeting of the British Association, Owen asserted that there are qualitative structural differences

Why are there so many different kinds of living things?

The first display in the *Origin of Species* exhibition.

between the brain of man and the brains of other apes, and this was refuted by T. H. Huxley, with the support, by the way, of W. H. Flower, who twenty years later succeeded Owen to become Director of this Museum. After the meeting, Charles Kingsley wrote an imaginary contribution to that debate. It begins: 'Mr. President and Gentlemen, I mean Ladies and Mr. President, I am sure that all ladies and gentlemen present will see the matter just as I do; and I am sure we're all very much obliged to these scientific gentlemen for quarrelling.—No.—I don't mean that, that wouldn't be charitable and, it's a sin to steal a pin: but I mean for letting us hear them quarrel, and so eloquently too; though of course we don't understand what is the matter, and which is in the right . . .'.

I have been speaking about letters which *Nature* has printed. But I cannot be silent on another action of *Nature*. On two occasions earlier this year they have published leading editorial articles about the Natural History Museum—one in February and one in March. The headline over the first of these reads 'Darwin's death in South Kensington'. It accuses the Museum of 'selling out on Darwinism'. 'Can it be' the editor fulminates, 'that the managers of the museum which is the nearest thing to a citadel of Darwinism have lost their nerve, not to mention their good sense?'. The Museum sent a brief reply, which *Nature* did not publish. It read as follows:

> Sir,
>
> The Trustees and Director of the British Museum (Natural History) cordially invite the readers and editor of *Nature* to the exhibition *Origin of Species* which opens to the public on 28 May this year, when they will discover that Darwin is alive and well in South Kensington.

As soon as I finish speaking you will be the first from outside the Museum to discover the truth of this statement. I have had the privilege of a very thorough pre-view, and I can assure you—if you need assurance—that you will see an admirably clear exposition of the way in which evolutionary change of an adaptive kind is brought about by Darwinian natural selection.

The accusations in *Nature's* editorials were made on the basis of a few words lifted from a sentence in one of the Museum's brochures, and given a meaning totally different from what is clearly implied by their context. Naturally the staff of the Museum feel that this was a blow beneath the belt, and so do I. *Nature* would no doubt reply that pushing criticism beyond the point which can be substantiated is a risk that has to be taken by the Press in doing its job—a vital one, as I readily agree—of alerting the public to suspected evil designs in high places.

In this connection I want to say only two more things.

First, I would remind *Nature* that crying 'wolf' will drive its readers into disregarding its future warnings.

Second, to those who have been wounded by these articles, I would commend the advice given by Lord Palmerston just one hundred and fifty years ago in relation to another highly respected journal. The occasion was the foundation of the British Association for the Advancement of Science, which took place in 1831. This newly-formed body was attacked and ridiculed in the pages of *The Times*, and Sir Roderick Murchison, one of the Association's most active promoters, wrote to a friend: 'I was complaining to Lord Palmerston of the injustice of such treatment. "Pooh, pooh", said he, "never mind them. A man who is not *Times*-proof cannot succeed in life"'. Nowadays we must make ourselves *Nature*-proof as well.

Most of you will already know that this exhibition is part of the programme of modernisation that the Museum undertook nearly ten years ago under its previous Director, Sir Frank Claringbull. Inevitably this programme attracted criticism, in accordance with the immortal principle enunciated by Francis Cornford in *Microcosmographia Academica*: 'There is only one argument for doing something; the rest are arguments for doing nothing. The argument for doing something is that it is the right thing to do'. I am confident that when the dust has settled, everyone—perhaps I should say almost everyone—will recognise that this modernisation was indeed the right thing to do.

The four sections of this programme that are already open have proved highly popular; they are on: *Human Biology*, *Introducing Ecology*, *The Dinosaurs and their living relatives*, and *Man's Place in Evolution*. The Trustees' plan for the next stages of the programme, recently announced in a letter to *Nature*, will involve less change from the familiar character of the original displays in the Museum. It consists of exhibits devoted to animal diversity. These will illustrate the range of creatures found on this planet. There will be three different groups of mammals, living and fossil; three on different groups of arthropods, and, last in the series, one entitled 'Unity in Diversity'—an introduction to all the Museum's exhibitions. In addition, an exhibition is planned on British Natural History, designed to meet the needs of committed naturalists. This reconstruction will fit the Museum to stride forward into its second century.

And let me remind you of two awards that the new exhibitions in this programme of renewal have won. The National Heritage Museum of the Year Award for 1980 went to the first three of these exhibitions, and in the competition for the 1980 European Museum of the Year Award, the only Special Commendation that came to a museum in Britain was to the Natural History Museum for the first four of these exhibitions collectively.

In the confidence that this new exhibition, on the *Origin of Species*, will also prove immensely successful, I now have great pleasure in declaring it open.

Right. HM The Queen and Professor T. R. E. Southwood FRS cross the Central Hall of the Museum watched by the staff, and their relations and friends.

Far right. HM The Queen bidding farewell to the Chairman of Trustees, Professor T. R. E. Southwood FRS and Mrs Southwood (behind) and the Director, Dr R. H. Hedley.

Above. HM The Queen and HRH The Duke of Edinburgh. HM The Queen receives specially bound copies of books published by the Museum for centenary year, from Professor T. R. E. Southwood FRS.

To commemorate their visit to the Museum, HM The Queen and HRH The Duke of Edinburgh signed a coloured photograph and the visitor's book.

HM The Queen leaving the Museum after the visit. The Mayor and Mayoress of the Royal Borough of Kensington and Chelsea, Councillor and Mrs Arnold H. Stevenson, stand by the car.

Souvenirs of centenary year

THE EVOLVING BIOSPHERE
NATURAL HISTORY
THE NATURAL HISTORY MUSEUM
BRITISH MUSEUM NATURAL HISTORY 1881–1981
NATURAL HISTORY
Alfred Waterhouse and the Natural History Museum
NATURE STORED NATURE STUDIED

The Museum has a long association with publishing and since 1881 it has issued more than 3000 books. The range of publications is wide, from the popular introductory guide to research monographs and catalogues; the *Bulletin of the British Museum* (*Natural History*), instituted in 1949, is issued in five series, Botany, Entomology, Geology, Historical and Zoology. Centenary year provided an excellent opportunity to publish a number of special volumes.

Actually published in 1980, the three-volume *Animal identification, a reference guide* (two volumes edited by R. W. Sims and one by D. Hollis) is a bibliography of primary sources of reference that can be used to identify animals throughout the world. *Chance, change and challenge* is a collection of papers, mostly by Museum staff, on evolutionary subjects and under the general editorship of P. H. Greenwood. It is published in two volumes: *The evolving earth* edited by L. R. M. Cocks, and *The evolving biosphere* edited by P. L. Forey. The other centenary volumes are largely concerned with the Museum and its history. *The Natural History Museum at South Kensington: a history of the British Museum* (*Natural History*) *1753–1980* by William T. Stearn provides a detailed account of the history of the Museum whilst *The British Museum* (*Natural History*) with text by Peter Whitehead, and colour illustrations by Colin Keates goes behind the scenes and describes the history, collections and work of the Museum. *Alfred Waterhouse and the Natural History Museum* by Mark Girouard is an account of the history of the building and some of its most interesting architectural aspects. Accompanying an exhibition of the same name *Nature Stored Nature Studied: collections, conservation and allied research at the British Museum* (*Natural History*) describes the growth of the collections and provides a brief review of current work in each of the scientific departments and the library. *Origin of species* is a specially written work that includes all the main ideas and images from the exhibition. A special edition of the souvenir guide was also issued in 1981. A. E. Gunther, the grandson of a former Keeper of Zoology and a benefactor to the Museum libraries, published privately a contribution to the centenary *The founders of science at the British Museum 1753–1900.*

So that visitors to the Museum might obtain their own memento of the centenary a large selection of souvenirs were made available for sale in the gift shop. Each souvenir had an aspect of the Museum building depicted on it and the dates 1881–1981.

Centenary year

Chronology

This chronology deals with events which were either directly connected with the centenary celebrations or related to them. There were other television and radio broadcasts and many press articles about the Museum during 1981 which are not included.

January

2 Exhibition *Nature Stored Nature Studied: collections, conservation and allied research at the British Museum (Natural History)* opened (ended 31 December).

2 Publication of the book *Alfred Waterhouse and the Natural History Museum* by Mark Girouard; and an article entitled 'British Museum (Natural History)' by W. E. Swinton in *Natural History* vol 90, no 1.

2 Visits. Special centenary offer for group visits (ended 31 March).

5 Broadcast. BBC Radio London on *Nature Stored Nature Studied.*

22 Broadcast. BBC TV *Nationwide* includes feature on the Museum.

February

10 Broadcast. BBC Radio London on the '*Importance of Darwin*'.

12 Lecture. Scientific Officers' Association 1st Special Centenary Lecture. *The future development of taxonomy in Great Britain* by Professor V. H. Heywood.

13 Broadcast. BBC Radio 4 *Kaleidoscope* on the centenary of the Museum (repeated 17 February).

18 Broadcast. BBC Radio 4 Schools programme on Darwin (repeated 26 February).

March

12 Lecture. Scientific Officers' Association 2nd Special Centenary Lecture. *The taxonomic institution in contemporary society* by the Director, Dr R. H. Hedley.

17 Broadcast. LBC on scientific activities of the Museum.

18 Broadcast. LBC on dinosaurs.

23 Award of plaque for special commendation in the competition for European Museum of the Year, 1980. Presented to the Director by Mr H. J. de Koster, President of the Parliamentary Assembly of the Council of Europe, at a ceremony held in the Guildhall, City of London.

24 Publication of *Nature Stored Nature Studied: collections, conservation and allied research at the British Museum (Natural History).*

30 Publication of *Chance, change and challenge* under the general editorship of P. H. Greenwood.

31 Publication of *The British Museum (Natural History)* by Peter Whitehead and Colin Keates.

April

6–10 Symposium organized by the Systematics Association in association with the Museum entitled *Time and space in the emergence of the biosphere.*

9 Publication of 'Evolution of natural history at South Kensington' by R. Fifield in *New Scientist*, vol 90, no 1248. The front cover also depicted the Museum.

10 Publication of *The Natural History Museum at South Kensington: a history of the British Museum (Natural History) 1753–1980* by William T. Stearn.

April

13–16 Conference organized by the Systematics Association and the Society for the Bibliography of Natural History in association with the Museum entitled *History in the service of systematics.*

15 Broadcast. BBC Radio 4 *Today* on the centenary of the Museum.

16 Broadcasts. BBC World Service *Outlook.*
Thames Television News.

17 Broadcasts. BBC Radio 4 *Kaleidoscope* and *Today.*
Capital Radio. Interviews with staff.

18 Centenary day.
Free tickets to the London Zoo or Whipsnade given to the first 100 children through the doors.
Broadcasts. BBC World Service *Science Today.*
LBC *Jellybone.*

19 Broadcast. BBC TV, *The ark in South Kensington* by David Attenborough (repeated 19 July).

22 Exhibition *Indian Botanical Paintings: the golden age of botanical illustration* opened (ended 31 July).
Broadcast. BBC Local Radio Service on *Indian Botanical Paintings.*

25 Publication of the special issue of the *Biologist*, vol 28, no 2, with articles on the Museum.

26 Broadcast. BBC TV *News Review* on *Indian Botanical Paintings.*

28 Broadcast. BBC TV *Lion*, a film on taxidermy in the Museum.

May

1 Publication of *Origin of Species.*

5 Broadcast. LBC on the publication of *The British Museum (Natural History).*

27 Exhibition *Origin of species* opened by Professor Sir Andrew Huxley PRS.
Visit by HM The Queen and HRH The Duke of Edinburgh.
Broadcasts. BBC Radio 4 on the opening of *Origin of Species.*
BBC TV News and Thames TV News on HM The Queen's visit.

June

3 Broadcast. BBC World Service on cladistics (in French).

22 Broadcast. BBC TV *Newsnight*, 'Controversy in Evolution'.
Capital Radio. Review of *Origin of Species.*

July

1 Exhibition to commemorate the close connections between the British Association for the Advancement of Science, celebrating its 150th anniversary and the Museum (ended 31 December).

26 Sponsored 100 mile run successfully completed by David Cooper of the Department of Zoology. £1130 raised in aid of Arthritis Care and the Spinal Building Appeal Fund for Stoke Mandeville hospital.
Broadcast. BBC Local Radio Service on David Cooper's 100 mile run.

30 Broadcast. BBC Radio 4 *Womans Hour*, 'Science simplified'.

October

1 Exhibition. *Perception*, Hall of Human Biology opened.
Broadcast. LBC on *Perception* exhibit.

2 Broadcast. BBC Radio 4 on Darwin.

October

8 Exhibition on British natural history specially designed for visually handicapped people opened (ended 15 November).
Broadcast. Radio Medway on special exhibit for visually handicapped people.

23 Social evening organized by the Staff Side of the Museum Whitley Council, and the Museum Sports and Social Association.

24 Broadcast. BBC TV *Swop Shop* on dinosaurs.

26 Broadcast. LBC. Sir Arthur Drew on plans for the East Infill; also a programme on the Museum as a day out.

29 Publication of Centenary Miscellanea issue of *Bulletin of the British Museum* (*Natural History*) Geology series vol 35, no 3, with nine short papers, each of which re-examines historical material in the collections of the Department of Palaeontology.

November

6 Visit by Cockernhoe School, Bedfordshire in Victorian costume.

12 Lecture. Scientific Officers' Association 3rd Special Centenary Lecture. *What is science for anyway*? by Professor Sir Frederick Dainton FRS.

17–19 Open Days.

18 Exhibition *Museum in Focus* opened (ended 31 January 1982).

27 Broadcast. BBC TV News on the Open Days.

December

4 Publication of the centenary issue of the house journal *Chrysalis*.

14–16 Lecture, *A botanist looks at evolution* by David Bellamy. Delivered twice daily to invited audience of 6th formers.

22 Broadcast. BBC Radio 4 on the Children's Centre.

1881
1981
HER MAJESTY THE QUEEN
UNVEILED THIS PLAQUE ON 27TH MAY 1981
TO MARK THE MUSEUM'S CENTENARY
IN SOUTH KENSINGTON

British Museum (Natural History) 1881–1981

Centenary Publications

The Natural History Museum at South Kensington

By W. T. Stearn
This book presents a full history of the Museum, its collections, Directors and eminent members of staff. It provides for the first time an account of the major research undertaken and insights into the personalities of the key people in the Museum's development and evolution.
Co-published with William Heinemann.

Alfred Waterhouse and the Natural History Museum

By Mark Girouard
Designed by Alfred Waterhouse in the 1870s the Museum is surely one of London's most outstanding pieces of architecture.
This attractively illustrated book describes the development of the design and highlights some of the building's most interesting features.
Co-published with Yale University Press.

British Museum Natural History

By Peter Whitehead & Colin Keates
The Museum is really a huge scientific research institution—acquiring, describing and classifying all manner of natural history material, both specimens and artworks. It has some of the richest collections of their kind in the world, and it is these and how they are obtained and managed that are the subject of this book. The lavish, full colour illustrations and lively text will appeal to everybody interested in natural history.
Co-published with Philip Wilson Ltd.

Chance, Change and Challenge

General editor P. H. Greenwood
This multi-author twin volume work is one of the Museum's most ambitious publishing projects. In the first volume *The Evolving Earth* twenty scientists have been asked to summarize the present state of knowledge in their particular field, ranging from the origin of the Earth, through ocean sediments and soils to continental drift and palaeogeography.
In the companion volume *The Evolving Biosphere* Museum scientists have chosen an evolutionary concept—speciation, coevolution, biogeography etc and related this to the group of animals or plants in which they are specialising.
Co-published with Cambridge University Press.

Animal Identification—A Reference Guide

VOLUME 1: MARINE AND BRACKISH WATER. *Edited by R. W. Sims.*

VOLUME 2: TERRESTRIAL AND FRESHWATER. *Edited by R. W. Sims.*

VOLUME 3: INSECTS. *Edited by D. Hollis.*

These guides provide the reader with lists of primary sources of reference that can be used to identify (or lead to the identification of) living animals throughout the world. The references are arranged in systematic and geographical sequence in order to facilitate searching.
Co-published with John Wiley & Sons Limited.

Nature Stored Nature Studied

A short guide complementing the exhibition of that name staged in the Museum throughout 1981. It gives a fascinating insight into the history of the Museum collections and the research carried out 'behind the scenes'.

BRITISH MUSEUM
NATURAL HISTORY
1881–1981

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**Bulletin of the
British Museum (Natural History)**

BRITISH MUSEUM
GENERAL
- 5 AUG 1982
LIBRARY
NATURAL HISTORY

An account of those described rock collections in the British Museum (Natural History) made before 1918; with a provisional catalogue arranged by continent

D. T. Moore

Historical series
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An account of those described rock collections in the British Museum (Natural History) made before 1918; with a provisional catalogue arranged by continent

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Synopsis

Those described collections of rocks in the British Museum (Natural History) considered to be of historical interest are listed by continent, in order of collection, with a collectors' and geographical index. The history of the collection at the British Museum and later the British Museum (Natural History) is briefly outlined, together with the history of two of the more important collections, those of the India Museum (London) and the Geological Society of London, which were eventually amalgamated with it.

Introduction

At the present time the principal purpose of the rock collection of the British Museum (Natural History) is to aid petrological research, and the bulk of the newly acquired material is obtained with such research in mind. The collection is, however, particularly rich in specimens of historical interest, and this account is concerned with that material: it is not intended as a catalogue of the whole collection. Although the older collections naturally tend to have an intrinsic historical interest, material does not have to be old to be historic. The rocks collected on the 1924 Everest Expedition and the collection made on the 1955–58 Trans Antarctic Expedition, for example, are properly regarded as belonging to this category.

Although there are several earlier accounts of the history of the rock collection in the British Museum (Natural History) there has never been a comprehensive account. Fletcher (1904) traced the beginnings of the collections of minerals, rocks, and meteorites, and gave a chronological list of rock acquisitions, with references, up to 1903, but Fletcher's account was written before the

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Geological Society Collections were acquired. Detailed catalogues are available for Africa (Campbell Smith, 1928), North and South America (Campbell Smith, 1932), and Antarctica and Australasia (Campbell Smith and Game, 1954). In the introduction to the African volume Campbell Smith (1928) traces the early history of the collection and mentions some of the more notable acquisitions. It is unfortunate that Asia, Europe and Oceania were not covered in this series. A more comprehensive listing of the collections is given by Bishop *et al.* (1971) though with little detail for each collection.

The present catalogue has been compiled with the aims of bringing the published list of described collections of historic rock material up to 1977, as well as covering the areas not included by Campbell Smith (1928, 1934), Campbell Smith and Game (1954), and Bishop *et al.* (1971).

Collection and curation

From the time of the foundation of the British Museum in 1753 until 1837 few records of rock acquisitions were kept, but a system of registration was introduced in 1837 which ensured that accurate records were maintained thereafter. From these records Figure 1 has been prepared showing the numbers of specimens registered over the last 140 years. Three particularly large collections are worthy of mention, namely those of Samuel Allport (1816–1897), the India Museum, and the Geological Society (see Fig. 1.).

New acquisitions to the rock collection have always been numbered and housed in order of registration. Although this system has considerable advantages, particularly in economy of storage, it does not enable rocks acquired from the same locality but at different times to be kept together, nor does it enable material collected during an expedition but acquired by the Museum at different times to be numbered in order. This problem applies particularly to the India Museum and Geological Society Collections, which in some cases included parts of rock collections which were already represented in the Museum. The problem is however overcome by card indexes.

In the nineteenth century a considerable period of time often elapsed between the collection of the specimens, and the acquisition and registration of the material by the Museum. For example, the Flinders/Brown collection of Australian rocks made in 1801–5 was acquired by the Museum in 1811, but not registered until the 1890s. For this reason the present catalogue has been arranged within continental subdivisions according to year of collection, as far as this can be determined. The Campbell Smith catalogues (1928, 1932 & 1954) and the catalogue of Bishop *et al.* (1971) are geographical in arrangement.

For some of the older collections in particular, it is often difficult to establish who was the actual collector. Consequently, the 'Collectors' Index', at the end of the catalogue, can only be provisional. Also, whilst every effort has been made to ensure accuracy in the catalogue, it should be understood that this is often difficult to achieve in a collection of this size and age.

Details of the collections for registration are obtained from lists, diaries and other documents acquired with the rocks. Where they still exist, these manuscripts are housed in the Mineralogy Library, British Museum (Natural History).

Most early geological collections included specimens of minerals and fossils. These are not kept with the rock specimens, but have been incorporated into the mineral collection and the collections of the Department of Palaeontology, respectively.

The rock collection at the British Museum

A considerable amount is known about the early years of the mineral collection in the British Museum (Campbell Smith 1969, Fletcher 1904), but the rock collection is less referred to.

In the late eighteenth century two important geological collections that contained rocks came to the Museum. The Museum of the Royal Society of London was given to the British Museum in 1781. Grew's (1681) catalogue of the Royal Society Museum is extant but, unfortunately, none of the known geological/mineralogical specimens appear to be, although Woodward (1904) lists

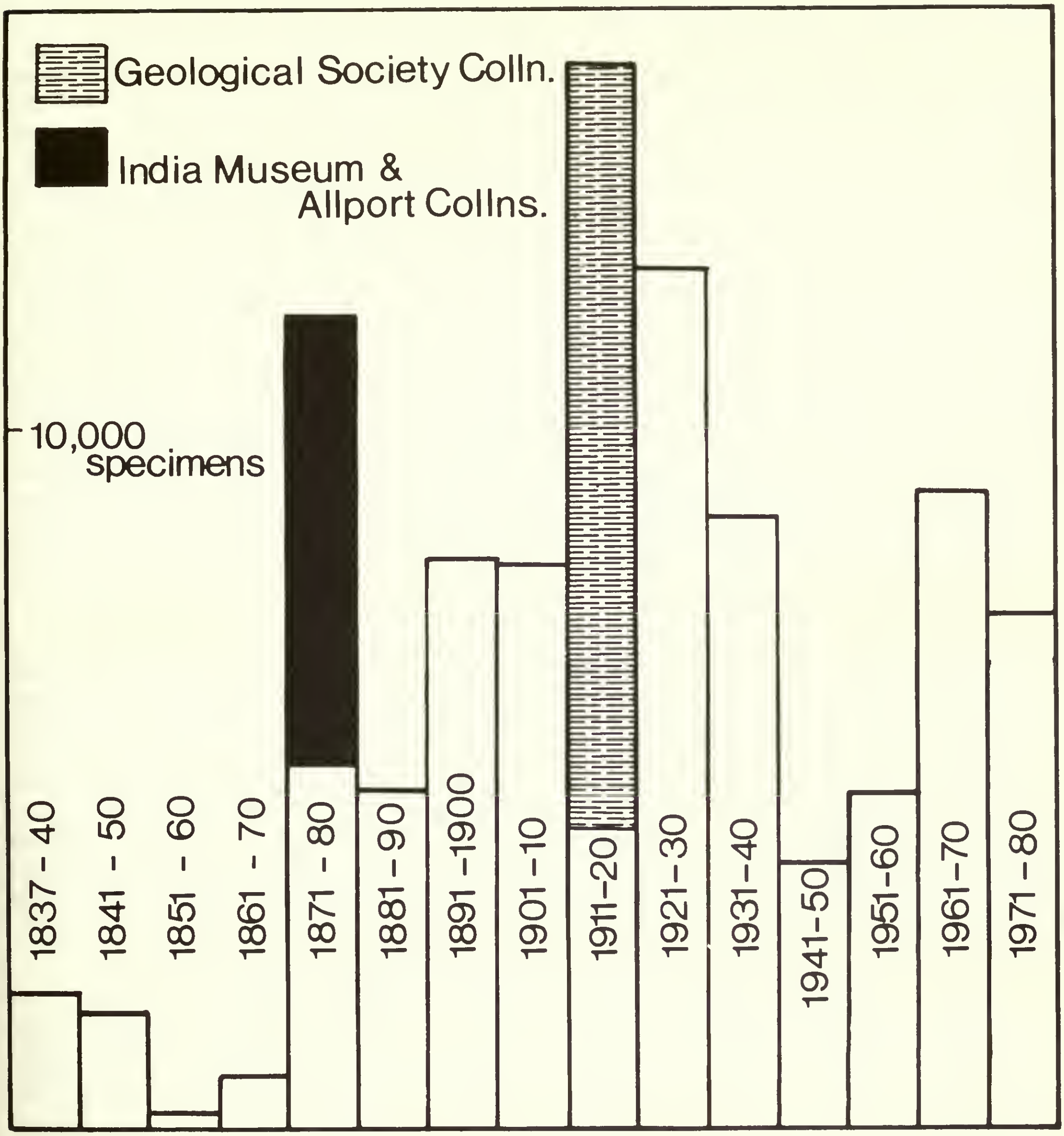

Fig. 1 Registration of rock specimens in the British Museum (Natural History) from 1837–1980 by decade. The total number of registered specimens at the end of 1980 was of the order of 99,000.

palaeontological material as being still in existence in his time. A second eighteenth century collection known to have contained rocks (Stern, 1981), and collected by Captain George Vancouver, RN (1757–1798) and the naturalist Archibald Menzies (1754–1842) in the Pacific, came to the Museum in 1796. Many of Menzies' plant specimens survive in the Department of Botany, but none of the geological material can be found.

Vallance and Moore (1982) pointed out that the *Synopsis of the contents of the British Museum* (8th edition, 1814: 54) lists 'Mountain rocks and other minerals, from the South Sea: King George's Sound, New Georgia and & C' as being in case 16 of room 8 at Montague House. Room 8 also had other rock specimens on display according to the *Synopsis.* The 1808 Edition of the *Synopsis* records that in room 8 there were rock specimens from King George's Sound

[Western Australia], New Georgia [Solomon Islands] and Dusky Bay [New Zealand]. To have been on display at Montague House in 1808 they must have been collected in the late eighteenth, early nineteenth century, and the expeditions of Vancouver and Cook seem likely collectors. Unfortunately, there are indications that following a rearrangement of the mineral collection in 1817 by Charles Konig (1774–1851) these specimens were lost or thrown away, at any rate they are never mentioned again and cannot now be found.

It is known (Campbell Smith 1969: 257) that Konig also moved some rock collections to the basement of Montague House in 1824, and that due to the dampness some of the labels were destroyed. Campbell Smith (1969) suggested that rock material collected by Sir John Ross (1777–1856) on his Arctic expedition of 1818 was lost at this time. (Interestingly, Ross's material now in the Department came from the Geological Society of London). There was disturbance again in the 1830s and 40s when the present British Museum building was occupied, and again when the collections were moved to South Kensington in 1880.

There followed a burst of registration of rock collections in the 1890s, (some of the collections registered at that time had been collected 90 years before), and a separate rock register was begun in 1898. This suggests that little curation of the rock collection was undertaken at Bloomsbury.

In the late nineteenth century and early twentieth century two other large and important rock collections were amalgamated into the present rock collection of the British Museum (Natural History). They were the collection of the India Museum, London, and the Museum of the Geological Society of London.

The collections of the India Museum, London

The India Museum and Library of the British East India Company began its existance in 1801, under Sir Charles Wilkins (1749–1836) according to Arberry (1967: 24). The Museum was by no means concerned solely with geology, and was under the direction of the Librarian until 1837. Thereafter the scientist in charge of the Museum was Dr Thomas Horsfield (1773–1859).

When the parent company's existence ended during the India Mutiny, the Museum moved from the Company's House in Leadenhall Street, London, to Fife House off Whitehall, then to galleries at South Kensington, and the dispersal of the contents began. The geological specimens came to the British Museum, soon to be the British Museum (Natural History), in several batches between 1860 and 1879. The question of the India Museum collections however, is discussed in more detail by Moore (1982).

The collection of the Geological Society of London

According to Woodward (1907), the museum of the Geological Society existed as early as 1809, and by 1819 G. B. Greenough (1778–1855) asked for a committee to be appointed to administer it. In its early days the museum was divided into two, with a section for beginners, which included simple minerals and fossils, and a section for the more proficient, which included foreign specimens, and material of a controversial nature.

By the time the Society was established at Somerset House in the 1830s, Leonard Horner (1785–1864) appears to have been the curator of the museum. The museum at this time was situated on the third floor of Somerset House (Woodward 1907: 75), but appears to have been little used (Woodward 1907: 145). William Lonsdale (1794–1871), a survivor of the battles of Salamanca and Waterloo, succeeded Horner as curator until 1842, when Edward Forbes (1815–54) succeeded him.

By 1860 it was felt that the Society's museum should concentrate on its foreign collections, as the Museum of Practical Geology in Jermyn Street was well placed to provide British specimens (Woodward 1907: 245). Also, it was becoming clear that the library was growing faster than the museum, and needed more space than was originally allocated (Woodward 1907: 246). Consequently, the Council decided in 1869 to restrict the acquisition of specimens to the museum.

The Society moved to its present apartments at Burlington House in 1874, and there followed a rearrangement and dispersal of some museum material. At this dispersal material went to the British Museum, the Museum of Practical Geology, King's College, London, the University of Cambridge, and the Orphans Working School, Haverstock Hill, London (Woodward 1907: 249). In 1895 Dr H. Woodward (1832–1921) hinted that expansion of the library would soon require the space occupied by the museum, and in 1901 the idea was accepted that the time was right to transfer almost all the specimens in the museum to other institutions (Woodward 1907: 249).

The Geological Society resolved finally to dispose of the contents of the museum in 1911 (*Proc. geol. Soc. Lond.*, Session 1910–11, p.cii.1911). It was agreed at a special general meeting held on 19 June of that year that the British material should go to the Museum of Practical Geology, Jermyn Street, and the foreign specimens to the British Museum (Natural History).

When the material was unpacked at the British Museum (Natural History), it was found to be impossible to identify many of the specimens (personal communication, Dr W. Campbell Smith, who was Assistant Keeper in the Department of Mineralogy in 1911.) The material, which bore no means of identification, was in due course thrown away in accordance with the Geological Society resolution 4 (*op.cit.supra*). At the British Museum (Natural History) 426 drawers were retained, of which 5 were given to the then Department of Geology (now Department of Palaeontology), and the rest to the Department of Mineralogy. However, a considerable number of documents, also received in 1911 from the Geological Society and clearly related to both extant, and lost specimens, are now in the Mineralogy and Palaeontology Libraries of the British Museum (Natural History). The 'waste book' and some other registers of the Geological Society, are held in the Palaeontology Library, British Museum (Natural History).

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Grew, N. 1681. *Catalogue & description of the natural and artificial rarities belonging to the Royal Society and preserved at Gresham Colledge* [sic] Printed by W. Rawlins, London. 384pp. + Appendices and plates.

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Stern, W. T. 1981. *The Natural History Museum at South Kensington.* Heinemann, London. 414pp.

Vallance, T. G. and Moore, D. T. 1982. Geological aspects of the voyage of H.M.S. *Investigator* in Australian waters, 1801–5. *Bull. Br. Mus. Nat. Hist.* (Hist. ser.) **10**: 1–43.

Woodward, A. S. 1904. The Department of Geology. In: *The History of the collections contained in the Natural History Departments of the British Museum.* Vol. 1. The British Museum, London. 2 vols.

Woodward, H. B. 1907. *The History of the Geological Society of London.* The Geological Society, London. 336pp.

A provisional catalogue of described rock collections made before 1918; and some other historical collections

An attempt has been made below to list all described rock collections made before 1918. References are included only where it is thought that the circumstances of collection, or the geology/petrology of the collections are referred to. General references to the geology of the area are not included. However, certain early (pre-1820) but undescribed collections are included, as are some later historical collections, because of their intrinsic interest.

Described material at one time in the India Museum, London, is indicated. Also, described material at one time in the collection of the Geological Society of London can be recognized by its present museum number bearing the preface 1911.

Africa

pre-1816	*South Africa*, Cape Town area, B. Heyne. BM 54991. (India Mus. Coll'n). *South Africa*, [Mr] Pohlman. BM 1911,1405.
1816	*Zaire*, C. Smith and [?] Tudor. BM 74551–89. C. Konig, 1818. Appendix (vi) 486–8. *In*: J. K. Tuckey, *Narrative of an Expedition to explore the River Zaire, usually called the Congo, in South Africa in 1816*. John Murray, London. 498pp with appendices.
1817	*South Africa*, J. Adam. BM 1911,1402–3. *South Africa*, Cape Town area, D. Carmichael. BM 1911,1404.
1820	*Sierra Leone and Los Islands*, [?] Nicol and Earl Bathurst. BM 74468–531.
1822–3	*Egypt*, J. Burton and G. B. Greenough. BM 1911,1383. For further notes on this collection see Campbell Smith (1928, p5).
1824	*Northern and central Africa*, D. Denham, H. Clapperton and W. Oudney. BM 74590–656. C. Konig, 1826. Appendix xxiii 247–61. *In*: D. Denham, H. Clapperton and W. Oudney, *Narrative of Travels and Discoveries in northern and central Africa in the years 1822, 1823, 1824*. John Murray, London. 269pp.
***circa* 1830**	*Egypt*, Sir John Gardner Wilkinson F.R.S. BM 13528–88 and BM 74657–742. See also Sinai (Asia). J. G. Wilkinson, 1832. Notes on a part of the eastern desert of Upper Egypt. *Jl R. geogr. Soc.* 2: 28–60. —— 1835. *Topography of Thebes and general view of Egypt, ...from Sooez* [sic] *to Berenice*. John Murray, London. 595pp. —— 1843. *Modern Egypt and Thebes*: ... John Murray, London. 2 vols.
1840	*Egypt*, Lt T. J. Newbold H.E.I.C. Madras army. BM 1911,1386. T. J. Newbold 1842 [Egyptian] Specimens offered to the Asiatic Society of Bengal. *J. Asiat. Soc. Beng.* **11**: 1131–5. —— 1842. On the geology of Egypt. *Q. Jl geol. Soc. Lond.* **4**: 324–49.
***circa* 1843**	*South Africa*, A. G. Bain. BM 1911,1440. A. G. Bain, 1845. On the discovery of the fossil remains of *Bidental* and other reptiles in South Africa. *Trans. geol. Soc. Lond.* **7**: 53–9.
before 1855	*Lower Egypt*, L. Horner. BM 1911,1378–9. L. Horner. 1855. An account of some recent researches near Cairo, undertaken with the view of throwing light upon the geological history of the alluvial land of Egypt. *Phil. Trans. R. Soc.* **145**: 105–38.

South Africa, R. N. Rubidge. BM 1911,1398.
R. N. Rubidge, 1857. On the copper mines of Namaqualand. *Q. Jl geol. Soc. Lond.* **13**: 233–9.

South Africa, P. C. Sutherland. BM 1911,1422.
P. C. Sutherland, 1855. Notes on the geology of Natal, South Africa. *Q. Jl geol. Soc. Lond.* **11**: 465–8.

1858 *South Africa*, R. N. Rubidge. BM 1911,1399.
R. N. Rubidge, 1859. On some points in the geology of South Africa. *Q. Jl geol. Soc. Lond.* **15**: 195–8.

before 1864 *Egypt*, Dr A. L. Adams, Surgeon 22nd Regiment [of Foot]. BM 1911,1377.
A. L. Adams, 1864. Notes on the geology of a portion of the Nile valley north of the second cataract in Nubia, taken chiefly with the view of inducing further search for fluviatile shells at high levels. *Q. Jl geol. Soc. Lond.* **20**: 6–19.

before 1867 *Upper Egypt*, Sir John Clarke Hawkshaw. BM 1911,1376.
J. C. Hawkshaw, 1867. Geological description of the first cataract, upper Egypt. *Q. Jl geol. Soc. Lond.* **23**: 115–9.

1867–8 *Ethiopia*, W. T. Blandford, during the 1867–8 Abyssinian war. BM 43118–84.
W. T. Blandford, 1870. *Observations on the geology and zoology of Abyssinia, ...* Macmillan & Co., London. 487pp.
—— 1869. On the geology of a portion of Abyssinia, ... *Q. Jl geol. Soc. Lond.* **25**: 401–6.
G. T. Prior, 1899. Riebeckite in trachytic rocks from Abyssinia. *Mineralog. Mag.* **12**: 92–5.

Ethiopia, Dr W. Schimper. BM 42917–3006.
A. Sadebeck, 1869. Geonostische Skizze der Umgegend von Axum und Adoa in Tigre. *Z. Ges. Erdk. Berl.* **4**: 347–52.
G. T. Prior, 1900. Aegirine and riebeckite anorthoclase rocks related to grorudite-tinguaite series from the neighbourhood of Adowa and Axum, Abyssinia. *Mineralog. Mag.* **12**: 255–73.
1868 *Sinai*, Egypt and Jordan,—see Asia.

before 1871 *South Africa*, J. Shaw. BM 47246–82 and 47284–6.
J. Shaw, 1871. On the geology of the diamond fields of South Africa. *Q. Jl geol. Soc. Lond.* **28**: 21–7.

1871 *South Africa*, W. G. Atherstone. BM 1911,1411.
W. G. Atherstone, 1896. Kimberley and its diamonds. *Trans. geol. Soc. S. Afr.* **1**: 76–87.

South Africa, T. R. Jones. BM 1911,1409.
T. R. Jones, 1871. Notes on some fossils from the Devonian rocks of the Mitzenberg Flats, Cape Colony. *Q. Jl geol. Soc. Lond.* **28**: 28–30.

South Africa, G. W. Stow. BM 1911,1392 and 1395.
G. W. Stow, 1871. On some points in South African geology. *Q. Jl geol. Soc. Lond.* **27**: 523–48.
—— 1871. On the diamond gravels of the Vaal River, South Africa. *Q. Jl geol. Soc. Lond.* **28**: 3–17.

before 1874 *South Africa*, G. W. Stow. BM 1911,1393.
G. W. Stow, 1874. Geological notes on Griqualand West. *Q. Jl geol. Soc. Lond.* **30**: 581–680.

1885 *Egypt*, borings in the Nile delta. BM 82819–93, and 1905,313.
J. W. Judd, 1885. Report on a series of specimens of the deposits of the Nile delta, obtained by recent boring operations. *Proc. R. Soc.* **39**: 213–27.

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—— 1897. Second report of a series of specimens of the deposits of the Nile delta, obtained by boring operations undertaken by the Royal Society. *Nature, Lond.* **55**: 548–9.

Egypt, Aswan, Sir John William Dawson. BM 1911,1375.
J. W. Dawson, 1886. Note on the geological relation of rocks from Assouan [Sic] and its neighbourhood. *Geol. Mag.* n.s., dec 3, **3**: 101–3.
T. G. Bonney, 1886. Note on the microscopic structure of some rocks from the neighbourhood of Assouan, collected by Sir J. W. Dawson [Sic] *Geol. Mag.* n.s. dec 3, **3**: 103–7.

Tanzania, H. H. Johnston (later Sir Henry Hamilton Johnston). BM 62142.
T. G. Bonney, 328–9 *In* H. H. Johnston, 1886. *The Kilima-njaro Expedition.* Kegan Paul, Trench & Co., London. 572pp.
—— 1886. Report on the rocks collected by H. H. Johnston Esq., from the upper part of the Kilima-njaro massif. *In Rep. 55th meeting Br. Ass. Advnt. Sci.* (*Aberdeen*) *1885*. 682–5.
L. Fletcher and H. A. Miers, 1887. Supplementary note on feldspar from Kilima-njaro. *Mineralog. Mag.* **7**: 131–2.
H. A. Miers, 1886. Orthoclase from Kilima-njaro, and adularia from Switzerland. *Mineralog. Mag.* **7**: 10–11.

1888 *Somalia*, S. King and T. Rupert Jones. BM 66440–501.
C. A. Raisin, 1888. On some rock specimens from Somali Land. *Geol. Mag.* n.s. dec 3, **4**: 414–8.

Socotra, Col M. Gosset. BM 66501–23.
C. A. Raisin, 1888. On some rock specimens from Socotra. *Geol. Mag.* n.s. dec 3, **5**: 504–7.

before 1889 *Madagascar*, Rev J. Wills. BM 65766-844.
G. T. Prior, 1901. Melilite basalt from Amparafaravola, Madagascar. *Mineralog. Mag.* **13**: 89–90.

Egypt, G. F. S. Elliot. BM 81159–297.
C. A. Raisin, 1893. Contributions to the geology of Africa, 1. Rock specimens from Upper Egypt. *Geol. Mag.* n.s. dec. 3, **10**: 436–40.

1892 *Kenya and Uganda*, C. W. Hobley and J. W. Gregory. BM 86853, 84757–8 and 1921,536.
C. W. Hobley, 1895. Upon a visit to Tsavo and the Taita Highlands. *Geogr. J.* **5**: 545–61.
J. W. Gregory, 1896. *The Great Rift Valley.* John Murray, London. 422pp.
—— 1900. Contributions to the geology of British East Africa. Part II. The Geology of Mount Kenya. *Q. Jl geol. Soc. Lond.* **56**: 205–22.
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C. A. Raisin, 1893. Contributions to the geology of Africa, 2. Specimens from West Africa (Sierra Leone). *Geol. Mag.* n.s. dec 3, **10**: 440–1.

1894 *Tanzania, Kenya, Zambia and Ruwenzori, Uganda*, G. F. S. Elliot and J. W. Gregory. BM 84751; and M. Fergusson, BM 85216(1–4).

G. F. S. Elliot & J. W. Gregory, 1895. The geology of Mount Ruwenzori and some adjoining regions of equatorial Africa. *Q. Jl geol. Soc. Lond.* **51**: 669–80.

G. F. S. Elliot, 1896. *A naturalist in mid Africa, being an account of a journey to the mountains of the moon and Tanganyika.* A. D. Innes & Co., London. 413pp.

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A. Lacroix, 1923. Comparison de quelques régions éruptives avec celles de Madagascar. *Mineralogie de Madagascar.* **3**: 227–94. Augustin Challamel, Paris. 3 vols.

before 1896 *Somalia*, E. Lort-Phillips and others. BM 85814.

J. W. Gregory, 1896. Notes on the geology of Somali-land, based on collections made by Mrs E. Lort-Phillips, Miss Edith Cole and Mr G. P. V. Aylmer. *Geol. Mag.* n.s. dec 4, **3**: 289–94.

G. P. V. Aylmer, 1898. [Part II of] Two recent journeys in northern Somaliland. *Geogrl. J.* **11**: 34–48.

1897 *Transvaal*, South Africa, F. H. Hatch. BM 83684–799.

F. H. Hatch, 1898. A geological survey of the Witwatersrand and other districts in the Southern Transvaal. *Q. Jl geol. Soc. Lond.* **54**: 73–100.

1898 *Ethiopia*, R. Koettlitz. BM 1920,520.

R. Koettlitz, 1900. A journey through Abyssinia to the Nile. Notes on geology and anthropology. *Geogrl. J.* **15**: 264–72.

C. A. Raisin, 1903. Petrological notes on rocks from south Abyssinia, collected by Dr Reginald Koettlitz. *Q. Jl geol. Soc. Lond.* **59**: 292–306.

Swaziland, T. R. Jones. BM 84243.

T. R. Jones, 1899. Notes on the geology of West Swaziland, South Africa. *Geol. Mag.* n.s. dec 4, **6**: 105–111.

pre-1899 *Socotra*, H. O. Forbes and W. R. Ogilvie Grant. BM 84752.

J. W. Gregory, 1899. Notes on the geology of Socotra and Abd-el-Kuri. *Geol. Mag.* n.s., dec. 4. **6**: 529–33.

1899–1900 *South Africa*, Natal. BM 1908,436.

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N. Nugent, 1821. A sketch of the geology of the island of Antigua. *Trans. geol. Soc. Lond.* **5** (1st series): 459–75.

1813 *Greenland*, Disko Island, C. L. Metzler (afterwards Sir Charles Ludwig Giesecke). BM 1911,1594.
C. L. Giesecke, 1823. On the mineralogy of Disko Island. *Trans. R. Soc. Edinb.* **9**: 263–72.

1816 *U.S.A.*, Massachusetts, J. W. Webster. BM 1911,1447.
J. W. Webster, 1825. Lettre adressée à M. Boué sur la constitution géologique des environs de Boston. *Annls. Sci. nat.* **4**: 253–6.
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Canada, Quebec, Lord Selkirk. BM 1911,1436. Probably an undescribed collection, see Campbell Smith (1932, p.64).

1818 *Canada*, Baffin Bay and Greenland, Capt J. Ross R.N. (later Sir John Ross). BM 1911,1596.
J. MacCullock, 1819. Appendix No 3 lxv-lxxxii. *In*: J. Ross, *A Voyage of discovery made under the orders of the Admiralty in His Majesty's ships* Isabella *and* Alexander. John Murray, London. 252pp.

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1819–21 *Canada*, Sir William Edward Parry on his first Arctic Expedition 1819–20. BM 75896–918, 76546 and 1911,1597.
C. Konig, 1821. Appendix ccxlvii-cclvii. Observations on the rock specimens. *In*: W. E. Parry, *Journal of a voyage for the discovery of the northwest passage, from the Atlantic to the Pacific; performed in the years 1819–20, in His Majesty's ships* Hecla *and* Griper, ... John Murray, London. 310pp.
C. Konig, 1823. An account of the rock specimens collected by Captain Parry during the northern voyage of discovery, performed in the years 1819–1820. *Q. Jl Lit. Soc. Arts Lond.* **15**: 11–22.

Canada, (but an overland expedition unlike the above), Sir John Richardson on Franklin's first expedition of 1819–22. BM 1914,1111 (part).
J. Richardson, 1823. Appendix 1, Geognostical Observations 497–538. *In*: J. Franklin, [sic, only the first edition has the appendices] *Narrative of a journey to*

the shores of the polar sea in the years 1819, 20, 21 and 22. John Murray, London. 786pp.

1822 *Canada*, Newfoundland, Lady Hamilton. BM 1911,1439.

1823 *Canada*, Sir William Edward Parry on his second Arctic Expedition. BM 80004–12, 80014–20 and 1911,1598.
W. E. Parry, 1824. *Journal of a second voyage for the discovery of the Northwest passage from the Atlantic to the Pacific performed in the years 1821–3 in His Majesty's ships* Fury *and* Hecla *under the orders of Captain William Edward Parry R.N. F.R.S.* John Murray, London. 558pp.
See also a note concerning this collection in Campbell Smith (1932: 59).

1825 *Labrador and Newfoundland*, Lt R. Morrison R.N. BM 1911,1438.

1825–7 *Canada*, Ontario, Manitoba and Saskatchewan, Dr J. Richardson, on Sir John Franklin's second expedition overland to the polar sea. BM 1911,1427 and 1914,1111 (part).
J. Richardson, 1828. Appendix 1. pp (i–lviii). *In*: J. Franklin. *Narrative of a second expedition overland to the polar sea, in the years 1825, 1826 and 1827.* John Murray, London. 320pp.
There are further notes on this collection in Campbell Smith (1932: 66, 70). The reference below is conceivably also applicable to this collection.
J. Richardson, 1828. Topographical and geological notices, from information collected during the expedition to the northwest coast of America under the command of Captain Franklin. *Proc. geol. Soc. Lond.* **1**: 66–9.

1826 *Canada*, Ontario, Lt H. W. Bayfield, R.N. BM 74845–902.
H. W. Bayfield, 1829. Outlines of the geology of Lake Superior. *Trans. lit. hist. Soc. Quebec.* **1**: 1–43.
—— 1845. On the junction of the transition and primary rocks of Canada and Labrador. *Q. Jl geol. Soc. Lond.* **1**: 450–9.

U.S.A., Massachusetts, D. Hussack. BM 1911,1449.

1827 *California and Alaska*, Lt Belcher R.N. See under Oceanic Islands.

1828 *U.S.A.*, Connecticut, Massachusetts, Rhode Island, U.S.A., Capt B. Hall, R.N. BM 1911,1446.
B. Hall, 1829. *Travels in North America.* Cadell & Co. Edinburgh. 3 vols.

1833 *Canada*, Quebec, Capt H. W. Bayfield, R.N. BM 1911,1441.
H. W. Bayfield, 1837. Notes on the geology of the north coast of the St Lawrence. *Trans. geol. Soc. Lond.* **5** (2nd series): 89–102.

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J. Burkart, 1836. *Aufenthalt und Reisen in Mexico in den Jahren 1825 bis 1834.* E. Schweizerbarts Verlagshandlung, Stuttgart. 230pp.

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W. J. Henwood, 1842. Note to accompany a series of specimens from Chaleur Bay and the river Ristigouche in New Brunswick. *Proc. geol. Soc. Lond.* **3**: 454–6.

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R. H. Schomburgk, 1848. *The history of Barbados; Comprising a geographical and statistical description of the island; ... and an account of its geology and natural productions.* Longman, Brown, Green and Longman, London. 722pp.

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R. H. Schomburgk, 1853. The peninsula and bay of Samaña, in the Dominican Republic. *Jl R. georgr. Soc.* **23**: 275–9.

1851 *Arctic Canada*, Capt H. T. Austin R.N. on an arctic search [for Sir John Franklin] expedition in HMSV *Pioneer*. BM 75822–70, 75853–73 and 80022–30.
J. W. Slater, 1853. On Arctic Silurian fossils *Q. Jl geol. Soc. Lond.* **9**: 313–7.
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1852 *Arctic Canada*, Wellington Channel, Franklin, Surgeon R. M'Cormick R.N. BM 66343–74 and 1921,398 (7–11).
R. M'Cormick, 1854. *Dr M'Cormick's expedition up the Wellington Channel in the year 1852, commanding HM boat* Forlorn Hope *in search of Sir John Franklin.* HMSO, London. 39pp.
—— 1884. *Voyages of discovery in the arctic and antarctic seas, and round the world; being personal narratives of attempts to reach the north and south poles; ...* Sampson Low, Marston, Searle and Rivington, London. 2 vols.
M'Cormick's specimens are also mentioned in the catalogue below, together with other material connected with arctic exploration.
W. Parker Snow, 1858. *A Catalogue of the arctic collection in the British Museum; with a list of the arctic relics in the United Services Museum and the Painted Hall, Greenwich.* Joseph Masters, London. 32pp.

1853 *Canada*, Devon Island, Capt E. A. Inglefield R.N. BM 80000–1 and 67362.
R. M'Clure, 1854. *The arctic dispatches, containing an account of the discovery of the North-West Passage.* J. D. Potter, London. 111pp.

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H. Bauerman, 1885. Report on the geology of the country near the forty-ninth parallel of north latitude, west of the Rocky Mountains. *Rep. geol. Surv. Can.* 1882–4. Rep.B.: 1–42.

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J. G. Sawkins, 1863. On the association of granite with the Tertiary strata near Kingston, Jamaica. *Q. Jl geol. Soc. Lond.* **19**: 35.

before 1864 *Canada*, Queen Charlotte Islands, F. Poole. BM 1911,1428–9.
F. Poole, 1872. *Queen Charlotte Island, a narrative of discovery and adventure in the north Pacific.* Hurst & Blackett, London. 347pp.

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R. J. L. Guppy, 1870. On the discovery of organic remains in the Caribbean Series of Trinidad. *Q. Jl geol. Soc. Lond.* **26**: 413–5.
—— 1877. On the physical geography and fossils of the older rocks of Trinidad. *Proc. scient. Ass. Trinidad* **2**: 103–9.
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1873–6 *St. Thomas*, West Indies. *Challenger* collection, see under Oceans.

1874 *Newfoundland*, J. Milne. BM 74743–83.
J. Milne, 1874. Notes on the physical features and mineralogy of Newfoundland. *Q. Jl geol. Soc. Lond.* **30**: 722–45.
—— 1877. On the rocks of Newfoundland. With notes by Alexander Murray. *Geol. Mag.* n.s. dec 2. **4**: 251–62.

1875–6	*Northern Greenland*, on the expedition led by Sir George Strong Nares. BM 79865, 79789, 79572–893 and 1911,1602. C. E. De Rance, and H. W. Feilden, 1879. On the geological structure of the coast of Grinnel land and Hall Basin, visited by the British Arctic Expedition of 1875–6. *In*: G. S. Nares, *Narrative of a voyage to the polar sea during 1875–6 in H.M. Ships* Alert *and* Discovery. **2**: 327–45. Sampson, Low, Marston, Searle & Rivington, London. 2 vols. For details of a collection from Greenland attributed to A. E. Nordenskiöld, see Campbell Smith (1932: 55).
1882	*Costa Rica*, G. Attwood. BM 1911,1468. G. Attwood, 1882. On the geology of a part of Costa Rica, with a report on some of the rock specimens by W. H. Hudleston. *Q. Jl geol. Soc. Lond.* **38**: 328–40.
1902	*St. Vincent*, Sir John Smith Flett. BM 1911,162,165 and 168–9. J. S. Flett, 1908. Petrological notes on the products of the eruptions of May 1902 at the Soufrière in St. Vincent. *Phil. Trans. R. Soc.* **208A**: 305–32. For details of other collections (often undescribed) of ash falls from St. Vincent, see Campbell Smith (1932: 116).
1910–11	*Costa Rica*, J. Romanes. BM 1912,533–4. J. Romanes, 1912. Geology of a part of Costa Rica. *Q. Jl geol. Soc. Lond.* **68**: 103–39. —— 1912. Geological notes on the peninsula of Nicoya, Costa Rica. *Geol. Mag.* n.s. dec 5, **9**: 258–65.

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1804	*Brazil*, J. Mawe. BM 1911,1532. J. Mawe, 1812. *Travels in the interior of Brazil, particularly in the gold and diamond districts of that country, including a voyage to the Rio de la Plata, and an historical sketch of the revolution of Buenes Ayres*. Longmans, London. 366pp.
1819–21	*Brazil*, A. Caldcleugh. BM 1911,1529. A. Caldcleugh, 1825. *Travels in South America during the years 1819–21*. John Murray, London. 2 vols.
1820–22	*Chile*, Capt B. Hall R.N. BM 1911,1515. B. Hall, 1824. *Extracts from a journal written on the coasts of Chile, Peru and Mexico, in the years 1820, 1821 and 1822*. Archibald Constable, Edinburgh. 2 vols. *Panama*, Capt B. Hall R.N. BM 1911,1469. B. Hall, 1824. *Op. cit. supra.*
1825	*Argentina and Chile*, H. B. Pentland. BM 1911,1513.
1826–30	*Straits of Magellan*, Chile and Argentina, Capt P. P. King R.N., Capt R. Fitzroy R.N. and others. BM 75208–14, 75219, 75245–50. 1911,1536 and 1911,1537. P. P. King, 1832. Some observations upon the geography of the southern extremity of South America, Tierra del Fuego and the straits of Magellan; made

during the late survey of these coasts in His Majesty's ships *Adventure* and *Beagle*, between the years 1826 and 1830. *Jl R. geogr. Soc.* **1**: 155–75.
Notes relating to these collections can be found in Campbell Smith (1932: 139–40).

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J. B. Pentland, 1835. On the general outline and physical configuration of the Bolivian Andes; with observations on the line of perpetual snow upon the Andes, between 15° and 20° south latitude. *Jl R. geogr. Soc.* **5**: 70–89.

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E. F. Poeppig, 1835. *Reise in Chile, Peru und auf dem Amozonenstrome während der Jahre 1827–1832.* Friedrich Fleischer. J. C. Hinrichssche Buchhandlung, Leipzig. 2 vols.

1833 *Argentina, Bolivia and Chile*, Sir Woodbine Parish. BM 1911,1516.
W. Parish, 1839. *Buenos Ayres and the provinces of the Rio do la Plata.* John Murray, London. 415pp.

1833–4 *Argentina*, Buenos Ayres, C. Darwin. BM 1911,1521.
C. Darwin, 1863. On the thickness of the Pampean Formations near Buenos Ayres. *Q. Jl Geol. Soc. Lond.* **19**: 68–71.

1834 *Peru*, M. E. de Rivero. BM 1911,1507.
M. E. de Rivero, 1832. Mémoire sur les Mines d'Argent de Pusco au Pérou. *Ann. des Mines.* (Serie 3), **2**: 169–98.

1836 *Guyana*, Sir Robert Hermann Schomburgk. BM 1911,1505.
R. H. Schomburgk, 1837. Diary of an ascent of the river Corentyn in British Guayana [sic], in October 1836. *Jl R. geogr. Soc.* **7**: 285–301.
—— 1837. Diary of an ascent of the river Berbice in British Guayana [sic], in 1836–7. *Jl R. geogr. Soc.* **7**: 302–50.
—— 1845. Remarks on the geology of British Guiana. *Q. Jl geol. Soc. Lond.* **1**: 298–300.

1837–8 *Bolivia and Peru*, J. B. Pentland. BM 1911,1506.
J. B. Pentland, 1838. Extraits de plusieurs lettres de M. Pentland à M. Arago, datées de la Paz (Republic de Bolivia). *C.r. hebd. Séanc. Acad. Sci. Paris*, **6**: 831.

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—— 1884. *Voyages of discovery in the arctic* ... [*Op. Cit.* see Antarctica].

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W. Bollaert, 1855. Observations on the coal formation in Chile, S. America. *Jl R. geogr. Soc.* **25**: 172–5.

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F. I. Rickard, 1863. *A mining journey across the great Andes, with explorations in the silver mining districts of San Juan; and Mendoza, and a journey across the Pampas to Buenos Ayres.* Smith Elder & Co. London. 314pp.

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R. Tate, 1869. Notes on the geology of Guyana, in Venezuela. *Q. Jl geol. Soc. Lond.* **25**: 343–50.

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1875 *Brazil*, Pernambuco, [Recife] Sir John Clarke Hawkshaw. BM 1911,1523.
J. C. Hawkshaw, 1879. Notes on the consolidated beach at Pernambuco. *Q. Jl geol. Soc. Lond.* **35**: 239–44.

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E. Whymper, 1892. *Travels amongst the great Andes of the equator*. John Murray, London. 456pp.
T. G. Bonney, 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador collected by E. Whymper. F.R.G.S. No. 1 Pichincha. *Proc. R. Soc.* **36**: 241–8.
—— 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador collected by Edward Whymper. No. 2 Antisana. *Proc. R. Soc.* **36**: 426–34.
—— 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador, collected by E. Whymper. No. 3 Cotopaxi and Chimborazo. *Proc. R. Soc.* **37**: 114–30.
—— 1884. Notes on the microscopic structure of some rocks from the Andes of Ecuador collected by E. Whymper. No. 5. Alter, Illiniza, Sincholagua, etc. *Proc. R. Soc.* **37**: 394–410.

1893 *Brazil*, Matto Grosso, J. W. Evans. BM 74236–309.
J. W. Evans 1894. The geology of Matto Grosso (particularly the part drained by the upper Paraguay). *Q. Jl geol. Soc.* Lond. **50**: 85–104.

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E. Hussak, 1890. Ueber Leucit-Pseudokristalle im Phonolith (Tinguait) der Serra de Tingua, Estado Rio de Janeiro, Brazil. *Neues Jb. Miner. Geol. Paläeont* Stuttgart. **1**: 166–9.

before 1894 *Brazil*, Goyaz, E. Hussak. BM 80144.
E. Hussak, 1894. Ueber einer neues Perowskitvorkommen im Verbindung mit Magneteisentein von Catalao, Staat Goyaz, Brazilien. *Neues Jb. Miner. Geol. Paläeont* Stuttgart **2**: 297–300.

1898 *Chile and Argentina*, E. A. Fitzgerald and S. Vines. BM 84468.
T. G. Bonney, 1899. Notes on specimens collected in the Chilean Andes [sic] by members of Mr Fitzgerald's Expedition. *In*: E. A. Fitzgerald, *The highest Andes, a record of the first ascent of Acongagua and Tupungato in Argentina, and the exploration of the surrounding valleys.* Methuen, London. 390pp.

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T. G. Bonney, 1901. Notes on rocks collected by Sir W. M. Conway [sic] during his expeditions in the Andes. *In*: W. M. Conway, *The Bolivian Andes.* Harper, London. 403pp.
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W. R. Rumbold, 1909. The origin of the Bolivian tin deposits. *Econ. Geol.* **4**: 321–64.

Antarctica

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J. C. Ross, 1847. *A voyage of discovery and research in the southern and Antartic regions during the years 1839–43.* **1**: 213–6. John Murray, London. 2 vols.
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Falkland Islands. BM 87171 (867–870).
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Balleny Island. BM 87171 (864) and (902).
Auckland Island. BM 87171 (871–896).
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1810	*Iceland*, Sir George Steuart Mackenzie, H. Holland and R. Bright. BM 1911,1060. G. S. MacKenzie, 1811. *Travels in the island of Iceland during the summer of the year 1810*. Archibald Constable & Co., Edinburgh. 491pp. R. M. Kark and D. T. Moore, 1981. The Life, Work and geological collections of Richard Bright, MD (1789–1858); with a note on the collections of other members of the family. *Archives of nat. hist.* **10**: 119–51.
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1815	*Greece*, Tinos, L. Horner. BM 1911,1300.
1817	*Czechoslovakia*, Bohemia, C. A. von Zipser. BM 1911,1296. C. A. von Zipser, 1817. *Versuch eines topographisch mineralogischen Handbuck von Ungern*. C. F. Wigand, Oedenburg. 440pp.
1818	*Germany*, Saxony, the Freyberg Collection acquired by H. Heuland. BM 1911,1167. *Hungary*, G. S. Beudant. BM 1911,1297. F. S. Beudant, 1822. *Voyage Minéralogique et Géologique en Hongrie*. Chez Verdiere Libraire, Paris. 4 vols.
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1821	*France*, Normandy, Sir Henry Thomas De La Beche. BM 1911,1181. H. T. de La Beche, 1822. On the geology of the coast of France and the inland country adjoining. *Trans. geol. Soc. Lond.* **1** (2nd series): 73–89. *France*, Auvergne, G. Poulett Scrope. BM 1911,1214. G. P. Scrope, 1858. *The geology and extinct volcanoes of Central France*. John Murray, London. 258pp.
1822	*Greece*, Attica, J. Woods. BM 1911,1299. J. Woods, 1822. Notice on the rocks of Attica. *Trans. geol. Soc. Lond.* **1** (2nd Series): 170–2.

1823	*Italy*, Vesuvius, T. Monticelli. BM 68180–204 and 68251–542. *Italy*, Rome, Ischia and Vesuvius, G. Poulett Scrope. BM 1911, 1237–8, 1911,1240 and 1911,1242. G. P. Scrope, 1828. On the volcanic district of Naples. *Trans. geol. Soc. Lond.* **2** (2nd Series): 337–52. —— 1827. Notice on the geology of the Ponza Isles. *Trans. geol. Soc. Lond.* **2** (2nd Series): 195–236. *France*, Limoges, M. Schmitz. BM 1911,1187.
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1830	*Sardinia*, possibly Sir Charles Lyell. BM 1911,1260. *Austria*, A. Sedgwick and Sir Roderick Impey Murchison. BM 1911,1292. A. Sedgwick and R. I. Murchison, 1832. A sketch of the structure of the eastern Alps; with sections through the newer formations on the northern flanks of the chain, and through the Tertiary deposits of Styria ... *Trans. geol. Soc. Lond.* **3** (2nd series): 301–420. *Spain*, Col. C. Silvertop. BM1911,1232–4. C. Silvertop, 1830. On the lacustrine basins of Baza and Alhawa in the Province of Granada and similar deposits in other parts of Spain. *Edinb. New phil. J.* **9**: 336–49. —— 1830. On the lacustrine basins ... (conclusion) *Edinb. New Phil. J.* **10**: 65–87. —— 1836. *A geological sketch of the Tertiary formation in the provinces of Granada and Murcia.* Longman, Rees, Orme, Brown, Green & Longman, London. 236pp.
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1886 *Belgium*, M. F. L. Cornet. BM 1911,1168.
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—— 1892. The so-called serpentines of the Lleyn. *Geol. Mag.* n.s., dec. 3, **9**: 408–13.
—— 1893. Variolite of the Lleyn, and associated volcanic rocks. *Q. Jl geol. Soc. Lond.* **49**: 145–63.

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M. M. Ogilvie-Gordon, 1902–3. The geological structure of Monzoni and Fassa. *Trans. Edinb. geol. Soc.* **8**: (special paper) 1–186.

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1822 *Cape Verde Islands*, H. T. Colebrook. BM 1911,1615–6.

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W. E. Parry, 1829. *Narrative of an attempt to reach the north pole in boats fitted for the purpose and attached to His Majesty's Ship* Hecla, *under the command of Captain W. E. Parry R.N., F.R.S.* John Murray, London. 229pp.

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Falkland Islands. BM 64778–828 and 65225. *Op. cit.* Rocks of the Falkland Islands. 97–104.

Marion Island. BM 64830–9. *Op. cit.* Rocks of Marion Island. 104–7.

Kerguelen Island. BM 64840–993. *Op. cit.* Notes on the rocks of Kerguelen Island. 107–41.

Heard Island. BM 65226. *Op. cit.* Rocks of Heard Island. 142–8.

Fiji Islands. BM 64994–5004. *Op. cit.* Rocks of Kandava, Fiji Islands. 149–52.

Banda Islands. BM 65005–26. *Op. cit.* The volcano of Goonong Api (Banda Islands). 153–6.

Molucca Islands. BM 65028–42. *Op. cit.* Rocks from the volcano of Ternate. 157–60.

Philippine Islands. BM 65043–70. *Op. cit.* Rocks from the Philippine Islands. 160–75. [BM 1920,668 (1–7)].

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A Provisional Collectors Index

Adam, J. South Africa 1817, India *circa* 1819.
Adams, A. L. (d 1882) Egypt, before 1864.
Allport, S. (1816–97) British and various foreign countries before 1877.
Alluaud, M. Kenya before 1903.
Anderson, W. (1860–1915) Natal 1899–1900.
Andrew, A. R. Malawi 1909.
Andrews, C. W. (1866–1924) Christmas Island (Indian Ocean) 1897.
Antrobus, R. L. St. Helena 1891.
Applegarth, F. (1822–?1890) Madras, India before 1862.
Atherstone, W. G. (1814–98) South Africa 1871.
Attwood, G. (1845–1912) Costa Rica 1882.
Austin, H. T. Capt R.N. *Pioneer* Arctic Expedition 1851.

Babington, B. G. (1794–1866) [H.E.I.C. Madras Civil Service.] India 1818.
Babington, S. [H.E.I.C. Bombay Civil Service.] India 1819.
Babington, W. (1756–1833) India 1818–19.
Bain, A. G. (1797–1864) South Africa 1843.
Baker-Webb, P. (1793–1854) Canary Islands 1841.
Balfour, I. B. (1853–1922) Rodrigues Island 1876.
Bathurst, 3rd Earl (1762–1834) Sierra Leone 1820.
Bauerman, H. (1833–1909) Canada/U.S.A. Boundary Commission 1850–61 and Egypt 1868.
Bayfield, H. W. Lt R.N., later Admiral (1795–1886) Ontario 1826 and Quebec 1833.
Beechey, F. W. Captain R.N. (1796–1856) N. Pacific in H.M.S. *Blossom* 1825–8.
Beke, C. T. (1800–74) Sinai Peninsula 1873–4.
Belcher, E. Lt R.N., later Admiral Sir Edward (1799–1877). Northern Pacific in H.M.S. *Blossom* 1825–8.
Bell, T. L. India before 1852.
Bellamy, C. V. Cyprus 1904.
Benza, P. M. (1788–1839) St. Helena and India 1837.
Berthelot, S. (1794–1883) Canary Islands 1841.
Beudant, F. S. (1787–1850) Hungary 1818.
Blandford, W. T. (1832–1905) Ethiopa 1867–8.
Bollaert, W. (1807–76?) Chile before 1855.
Bonney, Rev. T. G. (1833–1923) see Royal Society Exped. to Egypt, 1885. Ecuador 1879.
Bonpland, A. J. A. (1773–1858) Venezuela 1799–1800.
Bowen, Lt R.N. Canada 1837.
Bowen, H. G. Trinidad before 1856.
Bright, R. (1789–1858) Iceland 1811, and Hungary 1815.
British, Australian, New Zealand Antarctic Research Expedition 1929–31.
British & Commonwealth Trans Antarctic Expedition 1955–8.
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Brown, C. B. Burma 1905.

Brown, R. (1773–1858) and Flinders, M. Australia 1801–5.
Buchanan, F., later Hamilton (1762–1829) India 1815.
Bücking, F. C. B. H. (1851–1932) Thuringia *circa* 1888, Bavaria 1906.
Buist, G. (1805–60) Bombay, India 1850.
Burkart, J. (1798–1873) Mexico 1833.
Burr, T. (fl 1839–60) South Australia 1845.
Burton, J. (1788–1862) Egypt 1822–3.
Byrd Antarctic Expedition 1928–30.

Caldcleugh, A. Brazil 1819–21.
Carmichael, Capt D. South Africa 1817.
Challenger Expedition 1873–6.
Child, W. Azores *circa* 1911, Cape Verde Islands 1914.
Clarke, Rev W. B. (1798–1878) New South Wales 1855 and 1866.
Clapperton, H. (1788–1827) Expedition to Niger and Libya 1825.
Colebrooke, H. T. (1765–1837) Bhutan *circa* 1820–21, and Cape Verde Islands 1822.
Collie, A. (1793–1835) California and Alaska 1825–8.
Conway, Sir William Martin (b 1856) Kashmir 1893 and Bolivia 1901.
Cornet, M. F. L. (1834–87) Belgium 1886.
Cowley, A. South Africa before 1912.
Crawfurd, J. (1783–1868) Malaya, Thailand and China 1822, Burma 1827.
Cunningham, A. (1791–1839) Australia 1829.

Daintree, R. Queensland before 1872.
Daubeny, C. G. B. (1795–1867) France before 1820.
Dawson, Sir John William (1820–99) Egypt before 1886.
Darwin, C. R. (1809–82) Argentina 1833–4.
De La Beche, Sir Henry Thomas (1796–1855) Italy and Switzerland 1820 and France 1821.
Denham, D. (1786–1828) Expedition to Niger and Libya 1825.
Discovery Antarctic Expedition 1901–4.

Edkins, J. China 1855.
Edwards, A. and Holdsworth. See Lord Selkirk. Manitoba, Canada before 1812.
Edwards Leckie, Major R. G. Somalia before 1904.
Elliot, G. F. S. (1862–1934) Sierra Leone and Egypt before 1893.
Elliot, G. F. S. and Gregory, J. W. Uganda and Tanzania 1895.
Evans, J. W. (1857–1930) Brazil 1893 and 1906.
Everest Expedition 1924.

Ferguson, D. Antarctica 1913–14 (The Salveson Expedition).
Ferrar H. T. (1879–1932) Antarctica 1901–4.
Finlayson, G. (1790–1823) Thailand 1821–2.
Fitzgerald, E. A. (1871–1930) The Andes 1899.
Fitzroy, R. Capt R.N. (1805–1865) Chile and Argentina 1826–30.
Fleming, A. (1822–1901) The Salt Range, Pakistan before 1853.
Flett, Sir John Smith (1869–1947) St. Vincent, West Indies 1902.
Flinders, W. Capt R.N. (1774–1814) and Brown, R. Australia 1801–5.
Forbes, H. O. and Ogilvie Grant, W. R. Socotra before 1899.
Flower, Capt S. Sudan 1899–1900.
Foster, C. Le Neve Venezuela before 1869.
Franklin, J. Capt R.N. (1786–1847) later Sir John Franklin. See Richardson, J.
Franklin, J. Major (1783–1834) India before 1828.
Fraser, J. B. (1783–1856) India 1820, and 1821–2.

Gagel, C. (1865–1927) Canary Islands, 1910.
Gerard, A. (1792–1839) India 1825.
Gerard, P. (1794–1848) India 1825.
Gesner, A. Nova Scotia, Canada before 1836.
Giesecke, Sir Charles Ludwig (1761–1833) Greenland 1813.
Greenough, G. B. (1778–1855) Spain 1833.
Gregory F. T. and Gregory, J. W. (J. W. Gregory 1815?–50) Western Australia 1830–60.
Gregory, J. W. (1864–1932) Kenya 1892–3, Germany and Italy 1895.

Gregory J. W. and Elliot, G. F. S. Uganda and Tanzania 1895.
Grey, Sir George (1812–1898) South Australia 1845.
Gosset, Col M. Socotra 1888.
Gunther, R. T. (b 1869) Iran 1899.
Guppy, H. B. (1861–1948) Fiji etc. 1897–9.
Guppy, R. J. L. (1836–1916) Trinidad 1870.

Haddon, A. C. (b 1855) Torres Straits, Australia 1894.
Hall, B. Capt R.N. (1788–1844) Java 1812–16, India and Sri Lanka 1814, China, Korea and Okinawa 1817, Chile 1821, Panama 1821–4, and U.S.A. 1828.
Hamilton, Lady [not Lady Emma Hamilton (1761?–1815) but wife of the Governor of Newfoundland.] Newfoundland 1822.
Hamilton, Sir William (1730–1803) Italy 1768–79.
Hamilton, W. J. (1805–67) Germany 1848.
Hargreave, E. H. (1816–91) Australia before 1863.
Harmsworth and Jackson Expedition to Franz-Josef Land 1894–7.
Hatch, F. H. (1864–1932) Transvaal 1897. Natal 1909.
Hawkshaw, Sir John Clarke (1811–91) Egypt before 1867, Brazil 1875.
Henwood, W. J. (1805–75) New Brunswick, Canada 1841.
Heuland, H. (1778–1856) Saxony, Germany 1818.
Heyne, B. (1770–1819) South Africa before 1816.
Hobley, C. W. Kenya 1892–3, see also J. W. Gregory.
Holdsworth, [?] and Edwards. See Lord Selkirk. Manitoba, Canada 1812.
Holland, H. later Sir Henry (1788–1873) Iceland 1811.
Holmes, A. (1890–1965) Mozambique 1911.
Hooker, Sir Joseph Dalton (1817–1911) Chile 1842.
Horner, L. (1785–1864) Tinos, Greece 1815, Egypt before 1855, Germany 1861.
Horsfield, T. (1773–1859) Java *circa* 1811, Sumatra 1818.
Howchin, W. (d 1937) Australia 1907.
Humboldt, Baron Friedrich Heinrich Alexander (1769–1859) Venezuela 1799–1800.
Hussak, E. Brazil 1890 and 1894.
Hussak, D. U.S.A. 1826.
Hutton, T. (1807–1874) India 1838.

Inglefield, E. A. Capt R.N. Arctic Canada 1853.

Jack, W. (1795–1822) Sumatra 1818.
Jenkins, A. V. (1864–1903) Switzerland 1899.
Johnston, Sir Henry Hamilton (1858–1927) Tanzania 1886, Uganda 1902.
Jones, T. R. (1819–1911) South Africa before 1871, Somalia 1889, Swaziland 1899.
Judd, J. W. (1840–1916) Czechoslovakia (Bohemia) and Hungary 1877, Burma 1905.

Keene, W. (d 1872) Australia 1865.
King, P. P. Capt R.N. (1791–1856) Australia 1818–21, Argentina and Chile 1826–30.
King, S. Somalia 1889.
Koettlitz, R. Ethiopia 1898.

Lasius, G. S. O. (1752–1833) Germany 1808.
Lacroix, A. F. A. (1863–1948) Madgascar before 1902.
Lamont, J. (d 1913) Spitzbergen before 1860.
Loftus, W. K. (1821?–58) Turkey and Iran 1854.
Lort-Phillips, Mrs [E.] Somalia 1896.
Ludlam, H. (1824–1880) France and elsewhere before 1879.
Lyell, Sir Charles (1797–1875) Sardinia and Ascension Island 1830.
Lyell, Sir Charles and Murchison, Sir Roderick Impey. Auvergne, France, 1828.

Maclure, W. (1763–1840) U.S.A. 1818.
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Mantell, G. (1790–1852) England 1839.
Marshall, P. (1869–1950) New Zealand 1904.
Mawe, J. (1764–1829) Brazil 1804.
M'Cormick, R. (1800–90) Antarctic 1839–43, Arctic 1852–3, Chile 1842.
Medhurst, W. H. (1822–85) and Edkins, J. China 1855.
Milne, J. (1850–1913) Newfoundland 1874, Japan 1887.
Mitchell, T. L., later Sir Thomas Livingstone (1792–1855) Australia 1838, and 1847.
Molyneux, A. J. C. Zimbabwe 1902.
Monticelli, T. (1759–1846) Italy 1823.
Morrison, R. Lt R.N. Canada 1825.
Murchison, Sir Roderick Impey (1792–1871) Bohemia and Bavaria before 1862.
Murchison, Sir Roderick Impey and Lyell, Sir Charles, Auvergne, France 1828.
Murchison, Sir Roderick Impey and Sedgwick, A. Austria before 1835.
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Nares, Sir George Strong (1831–1915) Arctic Expedition 1877.
Newbold, T. J. (1807–1850) Lt [H.E.I.C. Madras army.] Madras, India *c* 1840, Egypt 1841.
Nicol, or Nicoll, H. and Bathurst, 3rd Earl, Sierra Leone 1821.
Noth, J. Orange Free State 1909.
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Ogilvie-Gordon, M. M. (1864–1939) Italy, *circa* 1900.
Ogilvie Grant, W. R. and Forbes, H. O. Socotra before 1899.
The Felix Oswald Expedition Kenya 1911.
Ouchterlony, J. (1813–1887?) India and China *circa* 1840.
Oudney, W. (1790–1824) Expedition to Niger and Libya 1825.
Oxley, J. W. M. (1785?–1828) New South Wales, Australia 1817–18.

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Quest Expedition to Oceanic Islands 1921–2.

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Skeats, E. W. Italy 1905.
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1901–5 W. H. Fitton, 1826. An account of some geological specimens ... *Phil. Mag.* **68**: 14–34.

——, 1826. *An account of some geological specimens from the coast of Australia.* Printed by W. Clowes, London. 64pp + map.

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before 1863 A. R. C. Selwyn and G. H. F. Ulrich. 1866. *Notes on the Physical Geography, Geology and Mineralogy of Victoria.* Intercolonial Exhibition 1866 Official Record. Blundell & Ford, Melbourne. 92pp.

The Journal of Peter Good

Gardener on Matthew Flinders Voyage to Terra Australis 1801—03

Edited with an introduction by Phyllis I. Edwards

July 1981. 213 pp. Illustrated
Bulletin of the British Museum (*Natural History*)
Historical Series Vol. 9

Paper covers, £24.00

The Peter Good *Journal* came into the possession of the British Museum with the manuscripts of Robert Brown (1773–1858), first Keeper of the Department of Botany (initially named the Banksian Department). It was transferred, in 1881, to the newly established British Museum (Natural History) at South Kensington. Associated with the *Journal* are copies of the seed lists Good sent to Sir Joseph Banks (1743–1820) and a slightly different version of part of his *Journal*. Although the Good *Journal* is mentioned by J. Britten and G. S. Boulger in their *A biographical index of deceased British and Irish botanists* (2nd ed., 1931), I have found no other reference to it. From reading only a few pages of the Good *Journal* it is evident that it is of both scientific and historical importance and a valuable supplement to Matthew Flinders own published account *A Voyage to Terra Australis*, 1814.

(Phyllis Edwards: Foreword to *The Journal of Peter Good*)

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Geological communication in the nineteenth century: the Ellen B. Woodward autograph collection at McGill University.
By S. Sheets-Pyenson.

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Susan Sheets-Pyenson

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Vol 10 No 6

23 December 198

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Geological communication in the nineteenth century: the Ellen S. Woodward autograph collection at McGill University

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Introduction

Historians no longer explain science's past by recounting its 'kings and queens and battles' (Price, 1955: 12). They are beginning to rewrite history 'from below' by viewing scientific activity from the bottom up[1]. Turning away from the best known figures and their discoveries, historians of science have started to describe the less well known or even 'unknown' upon whose efforts the enterprise depended (Shapin & Thackray, 1974: 12–13). Irrespective of country or period, most of these social histories have been cast in the mould of institutional studies. The rolls and proceedings of scientific societies, as well as the faculties and funding of the educational institutions, have been mined. Somewhat less frequently social historians have explored the emergence and development of disciplinary groups.

In the multidisciplinary or protodisciplinary area of natural history, scientific syntheses such as those of Charles Darwin or Charles Lyell rested upon the observations of legions of field workers whose contributions should be recognized. The subsidiary role of theory and experiment in natural history, along with the importance of extra-scientific elements like fashion and aesthetics, also calls for a broadened historiographical approach (Allen, 1976*a*). D. E. Allen has even contrasted traditional history of science with the development of natural history where 'so radically different a canvas calls for radically different artist's tools' (Allen, 1976*b*: 509–10). Considered here is one source that permits the sketching of some of the broad outlines of the social history of natural history during the nineteenth century.

Description of the collection

The Ellen Sophia Woodward autograph collection, located in McGill University's Blacker-Wood Library of Zoology and Ornithology at Montreal, provides a rare glimpse into the interests and intrigues of the Victorian naturalists' world. The twelve volumes of letters, autographs and photographs of around four hundred natural historians span nearly a century beginning in the 1820s. Since most letters in the collection were addressed to Ellen's husband Henry

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The 'geologising' Woodwards. kp
Above, left to right:
Henry; father Sam; brother Samuel P.
Below, left to right:
Sons Henry Page and Martin F.

Woodward (1832–1921), editor of the *Geological Magazine* from 1864 to 1918 and Keeper of the Department of Geology at the British Museum (Natural History) from 1880 to 1901, they illustrate with clarity the concerns of late Victorian geologists. Because Ellen Woodward also included letters written to other members of the Museum's staff—Edward Charlesworth, Charles Koenig, Richard Owen, and George Waterhouse—as well as some received by Henry's geologically-inclined father and brother Samuel, the collection mirrors an even broader segment of nineteenth-century science. Numerous letters sent by naturalists in the colonies, on the continent, and in North America make the Woodward volumes a valuable indicator of international scientific exchange.

Volume nine of the Woodward collection is devoted exclusively to Sir Richard Owen, first superintendent of the natural history departments at the British Museum. It brings together a number of his letters from the 1880s, as well as some printed biographical material. Volume eleven emphasizes letters written by the extended Woodward family, many of whom were practising geologists. The contents of volumes ten and twelve will be neither described nor listed here, as they contain, respectively, letters sent to Adolph von Koenen, geologist at Goettingen University,

Left, Richard Owen; *right*, Sheen Lodge.

and Stanley Boyd, a London physician. Ellen Woodward probably acquired their letters while seeking autographs of scientists, but these two volumes contribute little to the picture of British-based natural history that emerges from the other ten volumes containing Woodward correspondence.

As in any large manuscript repository, the significance of single items varies a great deal. A number of letters concern dinner invitations, appointments and social engagements. Other correspondents, however, addressed important scientific issues of the day, for instance, expressing dissatisfaction with current systems of taxonomy[2]. Perhaps most interesting are certain themes that appear repeatedly throughout the thousands of letters in the collection, which can help to reconstruct some of the characteristics of nineteenth-century geology. Several recurring motifs involve the dissemination of scientific knowledge, particularly the British Museum's role in transmitting information and the dynamics of natural history publishing. Other topics relate to the structure of the Victorian geological community, which was reflected in the distribution of power and revealed during times of controversy and contention. Still other subjects include the importance of metropolitan societies in promoting and shaping scientific activity, and the dominating influence of the Geological Survey over disciplinary evolution. These are just some of the themes suggested by the Woodward collection which can serve as guides to the exploration of the social dimensions of nineteenth-century geology.

The British Museum as disseminator and receiver of scientific information

A considerable amount of correspondence in the Woodward collection pertains to the British Museum, and its off-spring the British Museum (Natural History), whether concerning interdepartmental business, naturalists' visits to view specimens, or requests for materials from the libraries. These letters portray the Museum Keeper as an authority on all aspects of natural history. Koenig and Woodward were constantly asked to send casts and photographs of British Museum acquisitions, if not to loan the objects themselves, to less fortunate institutions and individuals. The British Museum assisted provincial museums at Brighton and Liverpool, as well as those overseas, such as Harvard's Museum of Comparative Zoology[3]. Naturalists in Britain sought the curator's advice in classifying anomalous fossils[4]. Continental geologists often needed

Left, John Rae: Arctic explorer; *right*, William Willoughby Cole, Third Earl of Enniskillen.

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detailed descriptions of British species that they had never seen[5]. Correspondents also asked the Keeper about practical matters, for example, how best to preserve specimens and where to procure labels for cabinet displays and dredges for unearthing shells[6].

At the same time that the British Museum transmitted data drawn from its extensive resources and skilled staff, it attracted natural history materials and descriptions from all over the world. By the late nineteenth century, Woodward and his fellow curators had transformed 'the old curiosity-shop in Great Russell Street' into one of the world's finest collections (Rudler, 1888: 268). Stringent rules regulating government-financed expeditions coupled with individual good will had expanded and improved the national repository. Scientifically-inclined military men like Colonel H. W. Feilden sent echinoderms from Malta, supplementing fossil and rock specimens gathered during his expedition to the Arctic[7]. Walter Rothschild, who created his own museum at Tring, agreed to finance an expedition under Forsyth Major which donated its treasures to the Museum[8]. Other wealthy amateur naturalists presented collections accumulated over a lifetime, as did Sir Philip Egerton and Viscount Cole, the third Earl of Enniskillen, with their complementary series of fossil fishes. Several correspondents reporting from the continent kept the staff abreast of the state of European exhibits[9].

Because its Keepers welcomed all kinds of contributions from remote regions, the British Museum has been criticised for its attitude of 'passive receptivity'. In harsher terms Frederick McCoy, director of the National Museum of Victoria, condemned the 'ostrich like gluttony' of the mother institution (Moyal, 1976: 60, 121). Certainly curators like Woodward encouraged the traffic in objects for the British Museum, especially when geological and palaeontological specimens were relatively easy to obtain and ship. William Swainson's *Naturalist's Guide* explained that shells required 'less trouble and risk procuring and preserving' than any other class of zoological subjects (Swainson, 1822: 43). The *Manual of Scientific Enquiry* told the eager amateur whose trip to foreign lands provided the impetus for beginning geological investigations that he needed little preparatory study or apparatus. Fragments of rock were not always appreciated but 'every single fossil species, bones, shells, crustacea, corals, impressions of leaves, petrified wood, etc.' would be welcomed (Herschel, 1886: 273–76, 280).

Father-and-son palaeontologists: *left*, Robert Etheridge Sr; *right*, Robert Etheridge Jr.

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To emphasize only the acquisitiveness of the British Museum, however, distorts the reciprocity of exchange between metropolis and province. The same process that enlarged the Museum's collections introduced civil servants and military men living abroad to scientific pursuits, thereby expanding indigenous learned communities. Indeed, the opportunity to act as Museum emissary at the outpost of empire was not wholly unattractive to ambitious young practitioners. Naturalists like Woodward and his assistant keeper Robert Etheridge sent their own sons to begin scientific apprenticeships in the hinterland. Just as natural history objects gravitated towards the Museum, expertise and example diffused outward.

Among the natural history sciences, perhaps geology stood to gain the most from continuous barter of materials and ideas. The discipline had grown dramatically between 1790 and 1830, as the transmission of information became 'speedy, assured and fruitful'. By mid-century the transformation of local studies into regional stratigraphy had advanced remarkably the knowledge of secondary and tertiary formations throughout England (Porter, 1977: 143, 214, 183). In encouraging the collection of fossil remains and series of rock specimens in other countries, British geologists aimed to extend their accounts of the structure and succession of strata. As the *Manual of Scientific Enquiry* pointed out, some of the most important problems in geology depended on the naturalist in distant regions for resolution. By carefully collecting fossils he could help determine whether formations corresponded to those of Europe, or to periods when sedimentary beds either had not been accumulated there or had been deposited but subsequently destroyed. Those 'geologis[ing] in countries little frequented' might provide new evidence for deciding whether the oldest rocks were everywhere the same (Herschel, 1886: 173–74). J. W. Salter, paleontologist to the Geological Survey, wrote in 1858 that 'What we want, in the present state of geology, is *abundance of good facts*, and these can only be collected by the industry of local observers.'. Like the superiority of the national museum, the progress of British geology—clearing up 'critical and obscure points' remaining as its 'opprobia'—depended upon the labours of far-flung workers (Salter, 1858: 301).

Natural history publishing: the importance of proprietary journals

Closely associated with the growth and development of natural history, a number of journals devoted to one or more of its branches began publication from London around the 1850s. For geology in particular, several commercial or proprietary periodicals were founded as supplements or alternatives to publications issued by the Geological Society of London (Jones, 1864: 4). The Society's *Transactions* and *Proceedings* had been beset by the kinds of problems that plagued nearly every nineteenth-century scientific journal—high publishing costs and limited sales. Both series expired by mid-century, but the *Quarterly Journal of the Geological Society*, created in 1844, managed to survive a precarious infancy. Officers of the Society insisted that because of the

Quarterly Journal's limited size, papers of merely local interest and controversial communications that might provoke lengthy discussion should be rigorously excluded (H. B. Woodward, 1908: 155–7, 257).

In contrast to the policy of the *Quarterly Journal*, the *Geological Magazine*, founded in 1864, welcomed precisely those 'hypothetical memoirs' that the Geological Society wanted to avoid. Although the *Magazine* was not the sole 'public journal of Geology in Great Britain', as it told its readers, its longevity contrasted sharply with the short career of Charles Moxon's *Geologist* or S. J. Mackie's *Geological and Natural History Repertory* (Jones, 1864: 3–4; H. B. Woodward, 1908: 145)[10]. Even its format and organization sixty years later looked almost identical to the first number (Rastall, 1922: 1). Henry Woodward was responsible for the *Magazine*'s successful formula for more than half a century, editing hundreds of issues while also serving on the British Museum staff. He accepted papers from aspiring young geologists, as well as from those whose contributions had been rebuffed elsewhere (Rastall, 1921). Under Woodward's direction the journal provided a medium for discussion of geological topics 'whether on orthodox lines or otherwise'. For his judicious and tactful editorial supervision, Woodward received warm letters from satisfied subscribers, grateful contributors and interested friends ([Anon.], 1921: 482).

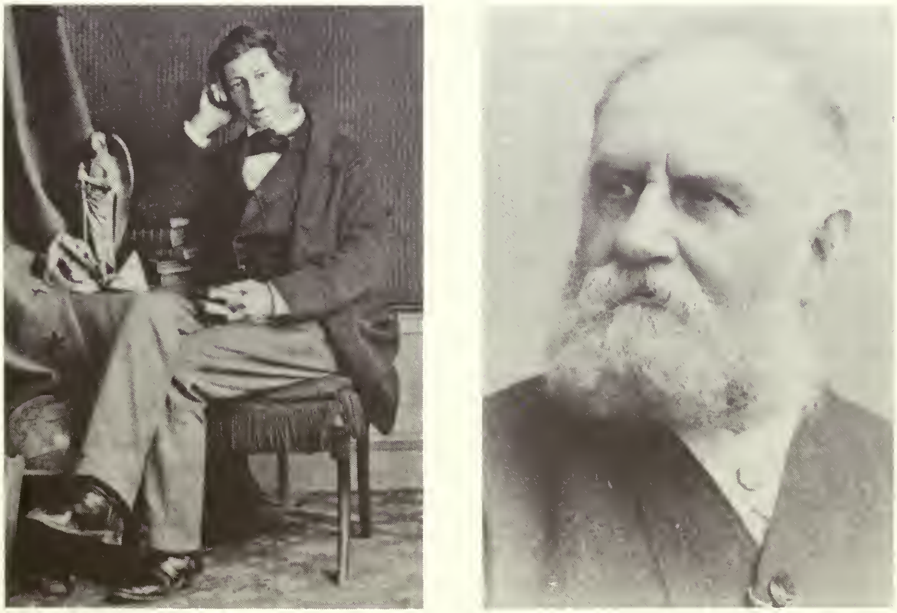
Correspondence accompanying material submitted to the *Geological Magazine* sometimes contained succinct statements summarizing the author's view of the scientific value of his proposed article. The American geologist J. D. Dana, for instance, explained to Woodward that his works argued against using lithology to date crystalline rock formations. Dana considered the classification of metamorphic rock in New England ill-founded, since it had never been based on a stratigraphic study of the region[11]. Other correspondents commented upon reviews of their books. The geographer Elisée Reclus, arrested for his part in the upheaval associated with the Paris Commune of 1871, wrote to Woodward from prison about the *Magazine*'s analysis of his work, *The Earth* (Jenkins, 1872). Reclus agreed with the reviewer that certain portions of the first edition contained 'elements that were too fantastic' and lacked the desired 'sobriété scientifique'. Yet Reclus, understandably antagonistic towards his homeland at that point, objected because his critic identified this 'idealism' as a characteristic of French writers. Educated at the University of Berlin, Reclus claimed that Karl Ritter had been the greatest influence on his life and had 'germanized' his way of thinking[12].

Readers often asked Woodward's help in procuring monographs and copies of specimens that had been described in the *Geological Magazine*. Correspondents who recognized the international power that the journal commanded also enlisted his support for less tangible purposes. In the *Magazine*'s early years, A. C. Ramsay, then senior director of the Geological Survey for England and Wales, sent a note for the editorial page which praised Alfred Selwyn and his work heading the recently abolished Geological Survey of Victoria. Ramsay believed that the influence of the journal would weigh in the colonies: the communication might serve survey proponents in Australia and Selwyn himself as he assumed direction of the Canadian survey[13]. Nearly fifteen years later S. V. Wood, Jr, a second-generation geologist, turned to the *Magazine* in order to defend his father's scientific reputation from the 'slur so heedlessly cast upon him'. The younger Wood wanted to set Wood Senior's description of the Hordwell Cliffs strata, the work in question, 'clearly before the Geological World'. Wood, Jr, felt that the *Geological Magazine* could rescue his father's account from oblivion in the long-defunct and never very popular *London Geological Journal*[14].

The success of the *Geological Magazine*, reflected in its prestige, circulation and longevity, sets it apart from a periodical like the *London Geological Journal* that ceased after three issues[15]. Yet both journals belong to an important tradition of dissent from publications sanctioned by the Geological Society. The *London Geological Journal* was founded by Edward Charlesworth in 1846, one year after the Society's *Quarterly Journal* made its debut, in order to allow the 'unfettered expression of independent opinions' (Charlesworth, 1846: 28). In particular, Charlesworth's *Journal* intended to demonstrate that the progress of geology would be impeded by relying too much on 'authority' (Pearce, 1847: 77–78). Charlesworth argued that with so much 'men-worship' in the geological realm, 'he who attempts to scrutinize results associated with great names, unless it happened that he be one of a privileged set, will not fail to come under the imputation of being actuated by disingenuous motives' (Charlesworth, 1847: 85). At the time when he created the *London Geological Journal* Charlesworth, who held posts at the British Museum and the Geological Society, was engaged in one of a series of acrimonious disputes with Richard Owen over the identification of fossil remains. Earlier he had provoked an enormous row among the members of the Geological Society when he applied for the curatorship vacated by William Lonsdale in 1842 (H. B. Woodward, 1908: 148). Charlesworth believed that those most bitterly opposed to his appointment had been Owen's friends who sat on the Council[16]. To avenge this treatment, he fashioned his *Journal* into an anti-Owen mouthpiece, featuring articles from naturalists who had suffered under Owen's abuse.

Nearly ten years before he founded the *London Geological Journal*, Charlesworth had taken over direction of the *Magazine of Natural History* from the horticulturist J. C. Loudon[17]. As a periodical dedicated to the diffusion of natural history, the *Magazine* did not confine itself to 'subjects of deep research' and the 'communications of experienced Naturalists' alone, but aimed to promote scientific pursuits among all classes of observers (Loudon, 1836: iii). The sailmaker and shell collector Hugh Cuming, who wrote to Charlesworth from Manila, found the journal especially interesting because he had been absent for so long from 'any thing like public discussion on scientific subjects'[18]. Charlesworth's skill at recruiting a broad readership alarmed other entrepreneurs in the field of science publishing. The frugal publisher of the rival *Annals of Natural History*, Richard Taylor, was so concerned about his competitor's success that he intended to consider 'whatever terms he might offer' if Charlesworth would agree to sell the copyright to his *Magazine*[19].

The *Geological Magazine* also allowed naturalists separated by oceans and continents from European cultural centres to learn about recent scientific developments. Working without the museums, libraries and learned societies of their fellow practitioners in Britain, colonists were acutely aware of their deprived circumstances (Gunther, 1975: 163). Robert Etheridge, Jr, then assistant geologist to the Geological Survey of Victoria, asked for any 'oddments of literature' that Woodward could spare[20]. C. H. Hitchcock approached Woodward on behalf of a group of young American geologists who wanted a formal affiliation with the *Magazine*[21]. Hitchcock and his colleagues, who later established the Geological Society of America, complained of 'no strictly geological magazine or journal in America' and 'no sufficient avenue of publication of the work of



Two natural history engravers: *left*, Joseph Lowry; *right*, Harrison Weir.

geologists and especially of paleontologists'[22]. They claimed that their association would enlarge Woodward's *Magazine* by adding a fuller discussion of American geological topics and increasing the number of American subscribers[23].

For the *Geological Magazine* and the *Magazine of Natural History*, problems of content and distribution—acquiring contributors and readers—were less formidable than technical difficulties, such as finding well-executed illustrations that could be reproduced. Many correspondents, like Richard Owen, were eager customers for the skilful natural history drawings of Gertrude M. or one of Henry Woodward's other four daughters. If the plight of one American naturalist is at all representative, scientists in England found capable artists more readily than did their foreign colleagues[24]. After a competent artist was located, however, the original drawing had to be reproduced by means of woodcuts, engraved metal plates or lithographic stones. Since detailed, accurate renderings were particularly important in natural history publications, authors consulted Woodward about problems like preparing woodcuts from photographs or duplicating geological maps[25]. Even the photomechanical processes employed by the 1890s were not without imperfections. One author complained bitterly that the method used by the *Geological Magazine* had produced a caricature of his original drawings[26].

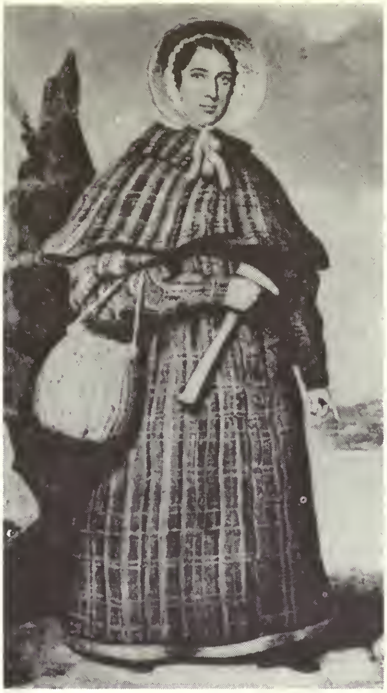
Amateurs to professionals

Whether contributors to the *Geological Magazine* or visitors to the British Museum, Woodward's correspondents came from diverse educational and social backgrounds. They cultivated geology for differing reasons under a variety of circumstances. An older generation, born around 1800, included names associated with the 'Golden Age of Geology'—Charles Lyell, Adam Sedgwick, William Buckland, Roderick Murchison and Henry De la Beche. Men like Archibald Geikie, W. J. Sollas and J. W. Judd, born in the 1830s and 1840s, belonged to the next geological generation. Linking these two groups were a number of father-and-son naturalist teams: the Carpenters, the Etheridges, the Woods, and, across the Atlantic, the Danas and the Dawsons.

By revealing the scientific pursuits and the course of careers of Victorian natural historians over nearly a century, the Woodward collection provides a long view of disciplinary dynamics. Most early nineteenth-century naturalists were amateurs—doctors, lawyers or landed proprietors whose scientific interests occupied leisure hours. As the century progressed, increasing numbers found full-time work as scientists. Positions were available at teaching institutions, with local natural history museums and botanical gardens, and in national organizations like the British Museum and the Geological Survey. In time these institutions would be replicated throughout the empire, providing additional scientific employment for educated Britons, as well as for colonial practitioners. Still, the quickened rate of professionalization following the creation of the British geological survey induced stresses and strains, particularly among institutions that had been created and directed by amateurs.

Two social groups have been associated with the rise of English geology in the opening decades of the nineteenth century. In one group were mining consultants and professional surveyors, largely provincial men who espoused utilitarian Baconianism and focussed their attention on geological strata. The second group comprised affluent, well-educated members of the liberal professions and gentlemen of leisure who usually lived in the metropolis (Porter, 1977: 135–38). Excluded from this account of the heterogeneous interests accommodated by geology are those observational naturalists and collectors who lacked even elementary training in science yet who were not associated with mineralogical exploitation of the British Isles. Aware of the deficiencies of their educational background, they depended upon others to generalize the 'facts' that they uncovered.

Typical of the autodidact neglected by Porter is one of the most famous collectors of the early nineteenth century, Mary Anning, discoverer of *Pterodactylus* and *Ichthyosaurus*. Owner of a curiosity shop in Lyme Regis where she sold fossils and shells like her cabinet-maker father before her, Anning wrote to Charlesworth lamenting that she could not classify some material because 'as I am illiterate [I] am not able to give a correct opinion'[27]. Another observer, Hugh Cuming, constantly sent natural history objects from the Pacific to scientists in London. Although he thought that these curiosities would occupy zoologists for years to come, his own

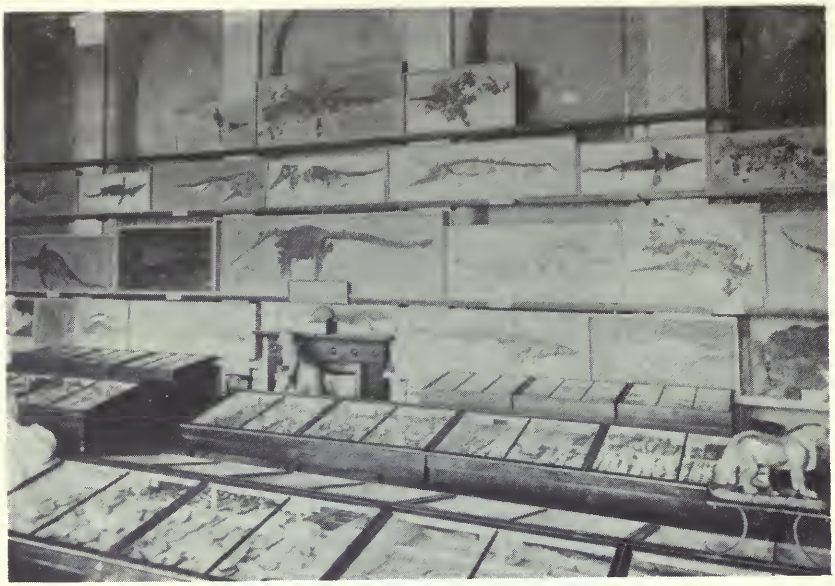


Mary Anning.

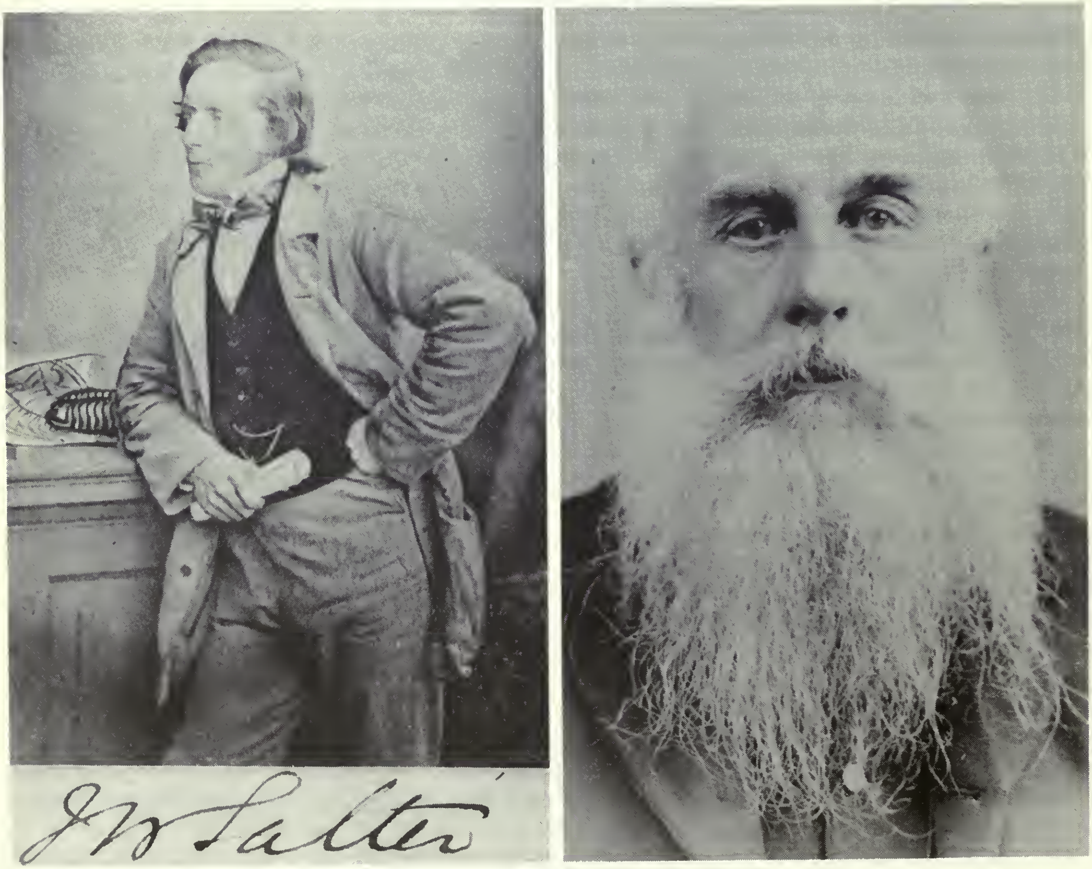
'defective Education' did not allow him to describe any of the specimens[28]. Despite limitations imposed by their incomplete training, both Anning and Cuming were professional naturalists, living from their skill as collectors. Both were well acquainted with London scientific worthies. Anning knew De la Beche, Buckland, William Conybeare, Egerton, Enniskillen and Murchison; Cuming contracted his services to the Zoological Society of London and won the praise of Richard Owen (Lang, 1935; Zuckerman, 1976: 18–19, 30; Owen, 1895: 313–17). By channelling their discoveries through naturalists with greater knowledge and resources, science workers like Anning and Cuming helped support the theory-construction and synthetic interpretations of others.

Two developments soon moved these early collectors and engineers to the periphery of the geological discipline. The amateur tradition supported by well-to-do practitioners was revitalized while job opportunities for career geologists began to expand markedly (Porter, 1978: 817, 829). As William Swainson predicted in 1834, natural history studies became the province of the better educated and the more prosperous—'the man of leisure and of learning; . . . those installed in public museums, or possessors of extensive collections or libraries' (Swainson, 1834: 194). Often a 'social accident of biography' made a talented and well-endowed young man forsake his chosen profession (Porter, 1973: 342–43). T. Rymer Jones left medicine for natural history because of deafness. John Ball's political defeat led him to science rather than Parliament. Others with private fortunes 'retired' from their callings at remarkably early ages. William Lonsdale and Roderick Murchison, both born in the 1790s, quit the army to take up natural history after fighting in the Napoleonic wars. Charles Moore, a bookseller, chose his marriage as an appropriate time for leaving business and devoting himself to geological investigations. S. V. Wood resigned from the East India Company at age twenty-eight in order to pursue full-time palaeontological studies. His son, with the same predilections as his father, left his solicitor's practice when thirty-five years old for the sake of his natural history interests. Turned away from traditional careers by accident or design, independently wealthy naturalists like Lyell found that full-time scientific investigations still were not viewed as a legitimate vocation (Wilson, 1972: 325).

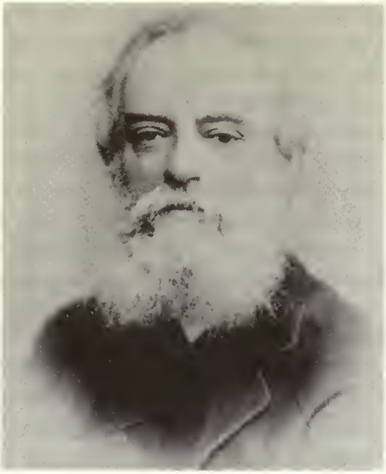
The event that did most to establish geology as an occupation and to alter the image of the typical British naturalist was the foundation of the Geological Survey in 1835. A mere glimpse of



Fossil collection of Charles Moore.



Geological Survey staff: *left*, J. W. Salter; *right*, William Whitaker.



W. T. Blanford: colonial surveyor.

the early surveyor arrayed in 'blue uniform, brass buttons and top hat' left little doubt of his serious function (Bailey, 1953: 37). The Survey hired scientists to help map the geological contours of the British Isles, to carry out laboratory investigations and research that assisted field workers, and to staff the Museum of Practical Geology, Mining Records Office and School of Mines. As Britain's colonies followed the successful model of the mother country, diverse positions opened in Australasia and North America for those willing to undertake the ocean voyage. The surveys sought men trained in geology, palaeontology and mineralogy, but they also needed chemists, botanists, fossil collectors and artists.

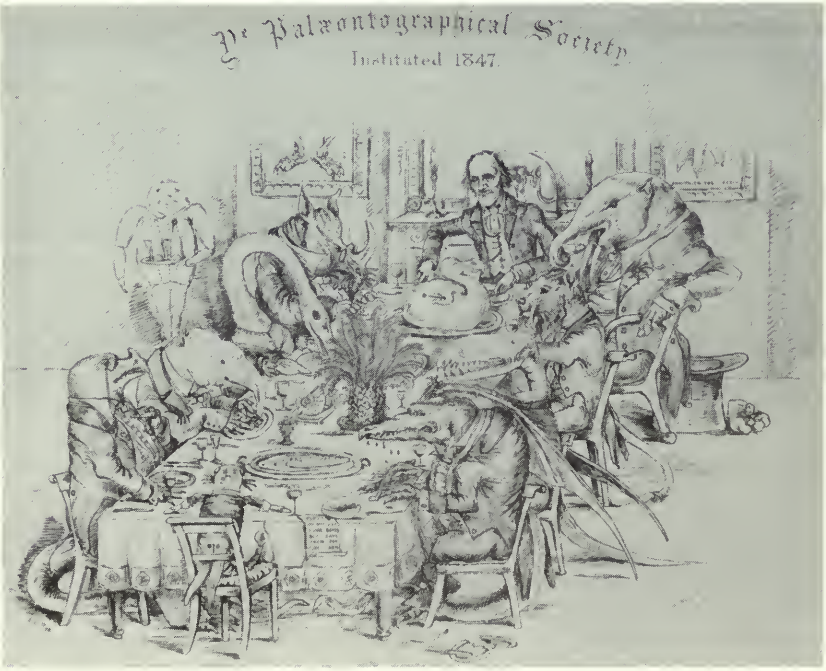
Around thirty palaeontologists and geologists who staffed geological surveys in different parts of the empire are represented in the Woodward collection[29]. With the advent of the British survey, for the first time a regular income could be earned from geological skills (Porter, 1977: 140). A recent study has suggested that the Geological Survey was by far the largest employer of geologists in Britain throughout the nineteenth century. However, the authors vastly underestimate the size of the undertaking, because field geologists alone are included, while their colleagues housed at headquarters and professional fossil collectors are ignored (O'Connor & Meadows, 1976: 80)[30]. The survey grew more rapidly than the study indicates; by the mid-fifties, it employed around twenty-five geologists just in the field staff (Bailey, 1953: 63)[31]. Possibly at the height of expansion, personnel amounted to seventy-seven in 1868 (Flett, 1937: 76)[32]. The number of geological workers halved between 1881 and 1885, due to completion of the primary survey of the British Isles in 1883 (O'Connor & Meadows, 1976: 88, n. 13). But as opportunities diminished in Britain, surveys in the colonies required geologists, preferring, of course, those with experience. In Australia surveys were founded in every state by the last quarter of the century (Andrews, 1942: 106–10).

Due to unparallelled opportunities for field experience and the steady growth of its research facilities in London, the Geological Survey became a great school for training geologists. The first contingent of surveyors recruited in the late eighteen-thirties and early eighteen-forties had little or no previous training in earth sciences. Their deficiencies reflected the primitive state of instruction in geology at the time. Lectures in the subject had been delivered in several British universities during the eighteenth century, but not until around 1820 did it become a regular feature of the curriculum (Porter, 1977: 144). In 1819 a readership in geology was endowed at Oxford. When Sedgwick became Woodwardian professor at Cambridge in 1818, he began to teach the science there systematically. In London, the Royal Institution occasionally included geology in its lecture courses, while the University of London endowed a chair only in 1841 (H. B. Woodward, 1908: 54, 88). By the time of Ramsay's tenure as survey director in 1871, the teaching of geology in universities had advanced considerably (Flett, 1937: 95). Positions increased as municipal universities and university colleges founded geology departments late in the century, displacing the subject from its old tutelage under natural history. By 1900, at least sixteen British universities offered courses in geology and mineralogy (O'Connor & Meadows, 1976: 79–80).

As a result of greater opportunities in surveys and universities, the community of professional geologists began to grow rapidly from 1850 onwards. By the last decades of the century tensions began to appear in institutions swelled with professionals, yet designed and still supported by amateurs. Within the ranks of the Geological Survey, for example, geologists had always been accustomed to considerable mobility. A. C. Ramsay, hired as a field geologist in 1841, became Local Director for Great Britain in 1845. Edward Hull and H. H. Howell, who both joined the staff in 1850, became, respectively, Director for Ireland in 1869 and Director for Great Britain in 1888. By the 1880s and 1890s, however, prospects for promotion were reduced drastically, because of a glut created from the many field geologists hired during the late sixties (Bailey, 1952: 31, 35, 140–41). Doing little to ease the resentment and confusion created by this situation, the usually close relations between the Survey and the Geological Society became strained around the same time. This conflict perhaps reflected differences between professionally-minded surveyors and the Society's predominant amateurs. In 1885, just after the Geological Society's membership peaked at 1361, its president defended the value of contributions from part-time practitioners. In T. G. Bonney's opinion, 'the discovery of truth' was not confined 'to any age or any workers' (H. B. Woodward, 1908: 256, 220). The president of the Geologists' Association, too, submitted that geology had always owed its main progress to amateurs (H. B. Woodward, 1894: 247). All protests aside, by the end of the century the advent of the professional had irrevocably altered the character of the discipline.

Power, politics, and patronage

The fostering of high standards for both amateur and professional geologists was enhanced by the growing numbers of natural history societies scattered throughout Great Britain. These societies established procedures for refereeing specialist papers, and rewarded outstanding contributions with medals and prizes (Rudwick, 1972: 201). Despite their common commitment to the promotion of scientific activity, societies squabbled among themselves and vigilantly guarded



Palaeontographical Society.

their rights and privileges. Far from the image of a republic of science, membership in these organizations and association with their governing councils corresponded to a hierarchy of power, each society exercising influence in scientific affairs proportional to its exclusiveness. At the pinnacle was the Royal Society of London; just below it came other national organizations like the Linnean Society and the Geological Society. Beneath them on the pyramid were metropolitan societies, for instance, the informal London Clay Club or the Palaeontographical Society that advertised for members in the *Geological Magazine*[33]. Closer to the base were societies removed from the scientific glitter and intensity of London, such as geological societies at Liverpool, Leeds, Glasgow, and Edinburgh. Most important for the youths attracted to local field clubs, they might hope to become 'some of the most celebrated of our metropolitan magnates' ([Anon.], 1865: 337–38).

Many naturalists coveted election to the circumscribed ranks of the Royal Society of London. As young Robert Etheridge wrote to Woodward from Australia: 'I wish I could get the FRSship; it is the only thing worth having and would give me a tremendous jump here'[34]. Another geologist, who had already secured the patronage of Lyell, was advised to submit a paper twenty-five to thirty-five quarto pages long, 'together with a statement of your pecuniary position and a detailed list of your publications'. He was warned that the paper should not be wholly descriptive, but should contain some speculation or generalization[35]. Apart from official requirements for admission, certificates of Royal Society candidates often followed convoluted courses in order to amass the proper number of important signatures—ten good names would suffice, said one correspondent[36]. M. H. N. Story-Maskelyne urged Woodward to get W. H. Flower's signature and a few more FRS friends added to Lazarus Fletcher's application. Maskelyne planned to forward it to Oxford for more signatures, and, finally, to Henry Roscoe and participants in the British Association for the Advancement of Science meeting at Manchester. Maskelyne wanted Fletcher's certificate 'well signed before hanging it up'[37].

Geologists and geological pursuits commanded less respect in the eyes of the Royal Society than physical scientists and their work. One aspirant to membership was cautioned that 'unless a geological paper be of high merit it does not meet in the Royal Society such acceptance as one in terrestrial magnetism, electricity, chemistry'. A number of 'meritorious' geologists like Woodward were still excluded from the Society in the early 1860s because of its high entrance fee[38]. The Royal Society's condescending attitude towards geology may perhaps be understood in terms of jealousy towards a sibling who was claiming more attention and noisily challenging the absolute authority of its elder sister. For by the 1830s, the Geological Society of London, founded amidst protests from the Royal Society in 1807, had become both fashionable and scientifically significant[39]. It was composed, wrote Sedgwick, of 'robust, joyous, and independent spirits, who toiled well in the field, and who did battle and cuffed opinions with much spirit and great good will' (Clark & Hughes, 1890: 298). Charles Babbage excepted the Geological Society in his description of the decline of science in England, and no important geologist refused to join the organization (Porter, 1977: 148). No longer the exclusive prerogative of the Royal Society, matters relating to geological sciences were referred to influential members of the Geological Society by governments and universities alike.

The rolls of the Geological Society listed distinguished fellows by the 1830s—peers, members of parliament, landowners, and bankers (Flett, 1937: 23–24). Both Darwin and Owen joined the Society in the mid-1830s (H. B. Woodward, 1908: 126). During the same decade, Murchison, Sedgwick, Lyell, G. G. Greenough, William Whewell and Buckland served as president; secretaries included De la Beche and Darwin (Flett, 1937: 13–14). In addition to attracting premier scientists to its membership and council, the Geological Society nurtured and protected offspring whose geological and palaeontological interests complemented its own. The Palaeontographical Society, which grew out of the fossil-collecting London Clay Club in 1847, held its meetings in the rooms of the Geological Society. Many of its local secretaries were fellows of the older Society. Some ten years later the Geologists' Association was created by Thomas Wiltshire, James Tennant and S. J. Mackie, all members of the Geological Society (H. B. Woodward, 1908: 162–63, 207). In the view of its founders, the new organization would diffuse geological knowledge to those who possessed neither the time nor means to master the subject and become fellows of the

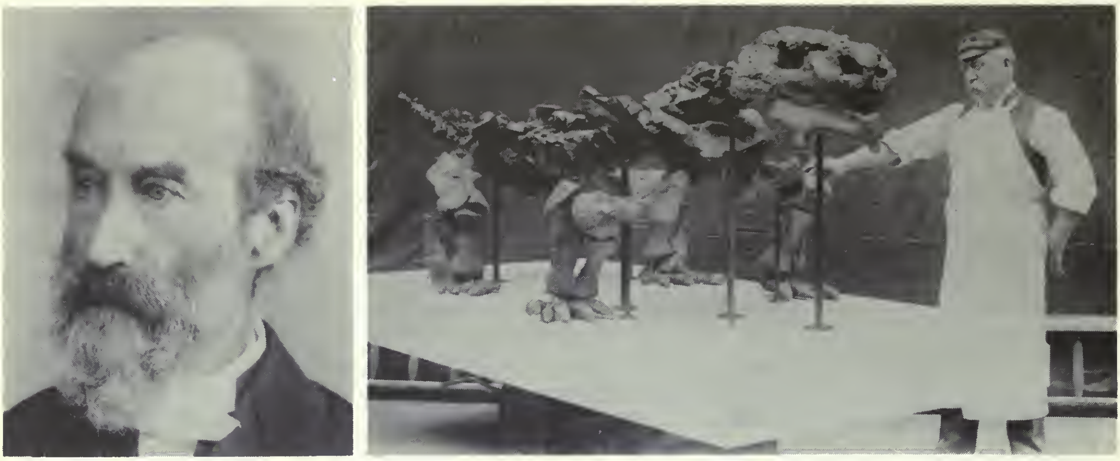
Field excursions.

parent institution (Jones, 1880: 11). Unlike the shortlived Junior Geological Club, started in London in 1864 by Society members, the Geologists' Association achieved lasting success through its popular excursions in the British Isles and abroad (H. B. Woodward, 1908: 207–8). The president of the Geologists' Association reaffirmed its symbiotic relationship with the Geological Society at the anniversary celebrations of its thirtieth year: 'If the Society represents the fountain head of geological wisdom, we rather represent the cistern which receives this knowledge from its source and distributes it in a convenient form, rendering it accessible to many who would find it less easy to drink directly from the primal fount' (H. B. Woodward, 1894: 270). At the annual meetings of the British Association, the Geological Section filled the largest meeting hall for six days notable for their liveliness and interest (Forbes, 1852: 67). During, roughly, its first sixty years of meetings, geologists presided over the Association eighteen times (Kennard, 1947: 291).

The influence of the Geological Society was nowhere more apparent than in the direction of the geological surveys, both in Britain and in the colonies. Contemporaries argued that the British survey should be seen as the child of the Society (H. B. Woodward, 1908: 100). When De la Beche was appointed to the Ordnance Survey to colour geological maps in 1832, he was serving as secretary of the Geological Society. Three years later the Society's president, Charles Lyell, along with Buckland and Sedgwick representing geological sciences at Oxford and Cambridge, advised the government to establish an independent geological survey (H. B. Woodward, 1908: 105). De la Beche's successor as survey director, R. I. Murchison, had served also as secretary and president of the Geological Society. Even William E. Logan's appointment to direct the Canadian survey was supported by the Society's president. As an officer of the Geological Society, Woodward's recommendations, too, could help secure appointments to survey staffs. The mineralogist and applied geologist J. E. Carne, who asked Woodward to support his application, received a position with the survey of New South Wales[40]. J. F. Whiteaves insisted that Woodward's testimonial had been instrumental in his nomination as palaeontologist to the Geological Survey of Canada[41].

Just as the endorsement of the Geological Society served as a stepping stone to a survey position, affiliation with the Survey eased entry to even more important scientific posts. Joseph Hooker wrote to a friend upon his nomination as botanist to the Survey in 1846 that his new position 'threw him very much into a new world and class of society in London, such as the Lyells, Owen, and Horner'. The new appointment was 'a most honourable one', 'worth twice the income it offers' (Huxley, 1918: 207–8). After nine years of service there, Hooker moved to the Royal Botanic Gardens at Kew, where he became assistant director and then director a decade later. Edward Forbes, also hired during De la Beche's administration in 1844, left the Survey after ten years to assume the natural history chair at Edinburgh. Upon Forbes's early death, T. H. Huxley, then naturalist to the Survey, was offered the vacant Edinburgh professorship, which he declined (Flett, 1937: 56, 66). James Geikie, employed by Murchison, later became professor of geology at Edinburgh (Bailey, 1952: 102). Ramsay's staff of the 1870s eventually filled geology chairs at Oxford, Cambridge, Manchester, Edinburgh, Glasgow, Dublin, Newcastle, Leeds and London (Flett, 1937: 95). Participation in the survey of Great Britain could also lead to supervising a colonial survey. Thomas Oldham, local director for Ireland from 1846 to 1850, left to manage the geological survey of India (Bailey, 1953: 35). Peripatetic A. R. C. Selwyn, 'one of the ablest of the staff' in Britain, led the survey of Victoria for more than sixteen years (Andrews,

Thomas McKenney Hughes: Professor of Geology, Cambridge.



Competitors for the geology chair at University College, London: *left*, T. G. Bonney; *right*, H. G. Seeley.

1942: 107). Upon its abolition in 1869 he became head of the Canadian enterprise (Zaslow, 1975: 100). Britain's Geological Survey also furnished directors for surveys in Greenland and Kashmir (Flett, 1937: 95).

London geological luminaries like Woodward who helped determine the composition of surveys also influenced appointments in geology at British teaching institutions. Although Henry Woodward received an honorary LL.D. from St Andrews in 1878, his own training in science had consisted of three years as an 'out-student' at the Royal Agricultural College in Cirencester. Geologists nonetheless turned to him for support when seeking one of the relatively scarce university positions (Gunther, 1975: 260–61). In 1873, Thomas McKenney Hughes asked Woodward to back his candidacy for the Woodwardian professorship of geology at Cambridge, vacated by the death of Adam Sedgwick. In preparation for the contest, Hughes had already obtained recommendations from Sir Charles Lyell and A. C. Ramsay, by then Director General of the Geological Survey of Great Britain. In a postscript to his letter to Woodward, Hughes noted that he would not send in his application until 'we have laid the poor old man in the grave' but that he must 'like all the others be getting ready'[42]. Four years after Hughes's efforts won him the Cambridge position, two rival candidates asked Woodward to support their applications for the chair of geology at University College, London. T. G. Bonney received the appointment, but his competitor, H. G. Seeley, insisted that nothing could help him more than Woodward's influence 'with all sorts and conditions of men'[43]. As British Museum keeper, long-time journal editor and president of five London natural history societies during the last quarter of the nineteenth century, Woodward's patronage contributed to defining the personal features of the institutional framework for geology that he had shaped.

The end of the 'geological century'

Around the turn of the century, three geologists reflected on the history of their discipline over the past century. They mentioned a number of sociological factors responsible for the remarkable progress of the science. Rationalization of collections at the British Museum (Natural History) and the Museum of Practical Geology had improved facilities for study. A wealth of texts, particularly the writings of Sedgwick, Murchison, Buckland, Lyell, Forbes, Ramsay and Geikie, had convinced young men and women to take up geological pursuits. Meetings of scientific societies and their publications had been similarly persuasive. Geological surveys had advanced the quality and quantity of maps, while natural science instruction at the university level had become widely available (Rudler, 1888; H. B. Woodward, 1894; H. Woodward, 1904).

Despite their satisfaction with institutional configurations, these geologists wrote as if exciting theoretical syntheses and stimulating new insights no longer characterized current disciplinary practice. Their accounts suggest that they were experiencing the decline of the 'Golden Age' of geology and living in the shadow of its greatest practitioners. Writing in 1876, Woodward remarked that the last decade had claimed Jukes, Salter, Murchison, Sedgwick, Phillips and Lyell—'names which include the most distinguished geologists that have been, and whose careers are hardly likely to find in the future an equally brilliant counterpart' ([Anon.], 1876: 1). Following the momentum given to the science by these pioneers had now come a period of 'hard work, detailed observation, minute subdivision, involved classification, and pedantic nomenclature' (Watts, 1903: 439). Fewer individuals turned to geology as a profession and others asserted that the discipline was 'played out'. There was still a need for field work like fossil collecting, wrote Henry's nephew, Horace B. Woodward, but treatment of more important questions depended upon the experienced 'arm-chair geological veteran' or those conducting specialized research in museums and laboratories (H. B. Woodward, 1894: 247, 252, 263).

At century's end geologists no longer hotly debated theological, philosophical and methodological questions (Kitts, 1973: 261). Stratigraphical studies had become pre-eminent with the introduction of zonal classification among fossiliferous formations, the rise and development of glacial geology, and the multiplication of detailed maps (Geikie, 1905: 438). Methods and conventions for dividing, classifying and labelling sequences were established (Zaslow, 1975: 30). Earlier controversies had dissipated and practitioners refined the details of commonly shared principles. The 'revolutions of opinion in matters geological', so disturbing to careers of science workers like Edward Charlesworth, ceased to convulse the disciplinary world[44]. No longer was the geological community divided by conflicts between Neptunists and Vulcanists, Uniformitarians and Catastrophists, or 'Silurians' and 'Cambrians' (Porter, 1977: 214–15). No younger naturalist appeared to assume the place of the ageing Richard Owen, who had never hesitated to challenge the palaeontological interpretations of his brother naturalists (H. B. Woodward, 1908: 177).

Perhaps because the general outlines of geology were fixed by the late nineteenth century, the number of first-class recruits to the science declined in Britain. The quantity of papers and monographs continued to increase rapidly, but their character and content became routine (Rudwick, 1972: 264–65). As the descriptive geology of the British Isles neared completion, local stratigraphical studies lost their intellectual importance. Just when British geology sought 'an epoch of more important generalisation' to unite the scattered labours of naturalists throughout the country, the centre of gravity of the discipline began to shift from London to other continents (Watts, 1903: 439). The impetus for organizing the first in a series of triennial international geological congresses came from the American Association for the Advancement of Science in 1876 (Frazer, 1888: 3). During the 1880s, new national publications appeared to rival or complement the *Geological Magazine*, for instance, the *American Geologist* and the *Annuaire géologique*. Recognizing the impressive array of university positions, government surveys and scientific societies in the colonies, the council of the Royal Society urged the creation of a scientific federation of the empire (Dawson, 1887). By the end of Victoria's reign it seemed that the long-awaited post-evolutionary synthesis in geology might come about through the efforts of those 'poor colonial niggers' working on the periphery of British culture[45].

Acknowledgements

I should like to thank Eleanor Maclean, head librarian of the Blacker-Wood Library, for her kindness in providing access to the Woodward collection. Lewis Pyenson offered valuable comments and suggestions.

Notes

Unless otherwise indicated, all names and dates refer to letters in the Woodward collection. See index to the collection (pp. 198–226) for fuller information.

1 On 'rewriting history from below' see the review essay by Darnton (1975).

2 For example, J. D. Dana, 3 Dec. 1880; J. S. Henslow, 15 Dec. 1844.

3 T. Davidson, 28 June 1885; G. Maw, 31 Jan. 1885; A. Agassiz, 2 March 1895.

4 For example, R. Owen, 9 March 1888.

5 W. B. Dames, 20 June 1886; A. von Koenen, 15 Dec. 1877.

6 E. E. Deslongchamps, 13 July [1885?]; F. E. Edwards, 8 Feb. 1873; J. S. Bowerbank, 27 Dec. 1868.

7 H. W. Feilden, n.d.; 12 Nov. 1878; 24 April 1878.

8 L. W. Rothschild, 2 Aug. 1893.

9 G. Lindstroem, 2 July 1874; F. Major, 13 Dec. 1891; A. S. Woodward, 10 May 1891.

10 On the *Geological and Natural History Repertory* see Sheets-Pyenson (1976: 98–9, 105, 230).

11 J. D. Dana, 3 Dec. 1880.

12 E. Reclus, 6 Jan. 1872.

13 A. C. Ramsay, 28 Dec. 1869.

14 S. V. Wood, Jr, Dec. 1883.

15 In 1866, the *Geological Magazine* claimed that it had maintained an average circulation of more than 700 monthly since its creation ([Woodward, H.], 1866: 1).

16 Edward Charlesworth to Adam Sedgwick, 3 Oct. 1842. Sedgwick correspondence, Add. 7652, I.D. 164b. University of Cambridge Library.

17 On the *Magazine of Natural History* see Sheets-Pyenson (1976: 96–7, 99–104, 207, 209, 229, 240).

18 H. Cuming, 10 Nov. 1839.

19 Richard Taylor to Sir William Jardine, 24 and 26 Oct. 1839. Jardine Papers, Royal Scottish Museum.

20 Robert Etheridge, Jr, 19 Feb. 1890.

21 C. H. Hitchcock, 21 May 1883.

22 'Circular letter to the Geologists of America', J. W. Dawson papers, Acc. 2211, file 114. McGill University Archives.

23 C. H. Hitchcock, 21 May 1883.

24 P. Egerton, 1 July 1877.

25 For example, J. Gunn, 17 Aug. 1883; M. Fraser, 1 Aug. 1893.

26 C. Lapworth, 26 Nov. 1891.

27 M. Anning, 12 July 1839.

28 H. Cuming, 10 Nov. 1839.

29 Baily; Barrett; Blanford; Bristow; Carne; Dawson, G. M.; De la Beche; Etheridge, Sr; Etheridge, Jr; Geikie, A.; Hardman; Hector; Howell; Jukes; King; Logan; Medlicott; Murchison; Oldham; Ramsay, A. C.; Rutley; Salter; Strangways; Teall; Topley; Whitaker; Whiteaves; Woodward, H. B.

30 Sometimes, but inconsistently, O'Connor and Meadows give aggregate figures (field staff plus headquarters), for example, their total of 73 for the period of 1872–81.

31 Against the figure of seven given by O'Connor and Meadows (1976).

32 O'Connor & Meadows (1976) give 57.

33 T. Wiltshire, 9 April 1886.

34 Robert Etheridge, Jr, 19 Feb. 1890.

35 J. J. Bigsby to J. W. Dawson, 27 April 1861. J. W. Dawson papers, Acc. 2211, 'Old Scientific Letters'. McGill University Archives.

36 P. M. Duncan, 14 Nov. 1871.

37 M. H. N. S. Maskelyne, 28 July n.d.

38 See note 35.

39 On the problems encountered by the young Geological Society see Rudwick (1963). According to Lauden (1977), the fortunes of the Society improved markedly in the early 1820s with the influx of new, younger members no longer committed to neo-Baconian inductivism.

40 J. E. Carne, 12 May 1892.

41 J. F. Whiteaves, 22 Sept. 1876.

42 T. Mc. K. Hughes, 29 Jan. 1873.

43 H. G. Seeley, 5 Sept. 1877.

44 Edward Charlesworth to Adam Sedgwick, 2 April 1860. Sedgwick correspondence, Add. 7652 II. 0.35. University of Cambridge Library.

45 H. Trimen, 11 Aug. 1889.

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My cut-off date for secondary sources is 1979.

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Index to the collection

The alphabetical list below contains the names of individuals whose letters, autographs and portraits appear in volumes I to IX and XI of the Woodward collection. Ellen Woodward pasted letters into the volumes in nearly rigorous alphabetical order according to correspondent, usually identifying the writer in some detail. In order to make the volumes easier to consult, I have followed her method of listing titles and hyphenated names, cross-referencing these to more familiar usages.

I have provided biographical information on correspondents, when available. In addition to 'capsule' identifications, similar to those supplied by the *Dictionary of National Biography*, I have included notable institutional affiliations, for instance, with universities or geological surveys. Several positions are listed when the individual later obtained a prominent appointment, different from the one at the time of correspondence. All associations with the British Museum are also indicated. My object is not to supply detailed biographies of correspondents, but rather to place them in a taxonomy as they relate to Woodward and the other recipients of letters.

The roman numeral given in each entry refers to the number of the volume where items appear. The total number of letters, autographs, portraits and biographical notices for each individual is noted. The designation 'portrait' often includes magazine or newspaper clippings, as well as higher quality engraved plates or postcards. Photographs, pencil sketches and cartoons are listed as such.

Unless otherwise indicated, the recipient of all letters was Henry Woodward. Those addressed to his wife Ellen are marked 'E.W.'; those to one of his daughters, 'Miss W'. Letters whose recipient is unknown show 'u.r'. Correspondence was carried out in English, except where noted otherwise. My own additions to names, dates and addresses in letters are placed within brackets. Uncertain information, often illegible handwriting, shows a bracketed question mark. Addresses are abbreviated to appropriate cities, towns or villages, but some county names appear when no more specific information was provided. London addresses are entered as a specific district or borough when so indicated by the author, a street name or an institutional location.

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Biographical information provided by Ellen S. Woodward has been verified and supplemented by the following sources:

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Waters, C. *Artists of the nineteenth century and their works.* Boston (Houghton, Osgood). 2 vols.

List of correspondents

Abel, Sir Frederick Augustus (1827–1902) I
Chemist and government scientific advisor.
1 letter: London, 2 June 1894.
1 portrait (photo).

Agassiz, Alexander (1835–1910) I
Zoologist, oceanographer, and engineer. Director, Museum of Comparative Zoology, Harvard University.
3 letters: Key West [Florida], 15 April 1881; [London?], 24 March 1886; Plymouth, 2 March 1895.
1 portrait (photo).

AGASSIZ, Jean Louis Rodolphe (1807–1873) I
Palaeontologist and geologist. Professor, Harvard University.
2 letters: Neuchâtel, 13 Nov. 1837, to Charles Koenig, (German); London, 11 [illeg.] 1835, to Edward Charlesworth, (French).
1 portrait (photo).

ALLMAN, George James (1812–1898) I
Botanist and zoologist. Regius Professor of Natural History and Keeper of the Natural History Museum, University of Edinburgh.
2 letters: Beckenham, 20 [June?] 1872; St Leonards, 28 July 1872.

AMHERST, afterwards CECIL, Hon. Alicia Margaret Tyssen (1835–?) I
Horticultural writer and Baroness of Hackney.
2 letters: Brandon (Norfolk), 19 Oct. [1894]; Brandon (Norfolk), 2 Nov. 1894.

ANDERSON, Elizabeth Garrett (1836–1917) I
Physician. Dean and lecturer on medicine, London School of Medicine for Women.
1 letter: London, 5 Jan. 1889, to E.W.

ANNING, Mary (1799–1847) I
Fossil collector at Lyme Regis and discoverer of ichthyosaurus.
1 letter: Lyme Regis, 12 July 1839, to Edward Charlesworth.
1 sheet of 'pensées'.
1 portrait.

ARGYLL, Duke of. See CAMPBELL.

ARNOTT, Neil (1788–1874) I
Physician and natural philosopher.
1 letter: n.p., n.d. (8 June), to u.r.

AUSTIN, Stephen (1804–1892) I
Printer.
1 portrait.

BAILY, William Hellier (1819–1888) I
Palaeontologist and geologist. Palaeontologist to Geological Survey of Ireland. Assistant curator, British Museum, 1837–44.
1 letter: Dublin, 25 April 1861, to J. W. Salter.

BALFOUR, Sir Isaac Bayley (1853–1922) I
Professor of botany and Regius Keeper of the Botanical Gardens, University of Edinburgh.
1 letter: Edinburgh, 8 Jan. 1900.
1 autograph.

BALL, John (1818–1889) I
Politician, alpine traveller, and science worker.
2 letters: S. Kensington, 24 Sept. [1877]; S. Kensington, 27 Sept. 1877.

BALL, Sir Robert Stawell (1840–1913) I
Astronomer and mathematician. Astronomer Royal of Ireland and professor of astronomy, University of Dublin. Later, professor of astronomy, Cambridge.
1 letter: Dublin, 17 May 1892.
1 portrait.

BALL, Valentine (1843–1895) I
Director, Science and Art Museum, Dublin.
2 letters: Dublin, 8 Jan. 1890; Dublin, 12 Sept. 1891.

BALL, Wilfrid (1853–1917) I
Etcher and watercolour painter.
1 letter: London, n.d., to E.W.

BARRANDE, Joachim (1799–1883) I
Palaeontologist and stratigrapher.
1 letter: Prague, 1 Aug. 1878, (French).
1 portrait (photo).

Barrett, Lucas (1837–1862) I
Geologist and naturalist. Director, Geological Survey of Jamaica.
1 letter: Cambridge, 29 Oct. 1856, to S. P. Woodward.

Bate, Charles Spence (1818–1889)
Science writer and dentist.
2 letters: Plymouth, 3 Aug. 1877; Plymouth, 5 Nov. 1883.

Bates, Henry Walter (1825–1892) I
Naturalist. Assistant Secretary, Royal Geographical Society.
2 letters: London, 12 Oct. 1878; London, 9 Nov. 1886.

Beckles, Samuel Husband (1814–1890) I
Geologist and former barrister.
2 letters: St Leonards, 29 [illeg.] 1885; St Leonards, 21 Jan. 1888.
1 portrait (photo).

Bedford, Eleventh Duke of. (Herbrand Arthur Russell) (1858–1940) XI
Science patron, especially in zoology.
1 letter: Woburn Abbey (Bedfordshire), 8 June 1903.

Bell, Thomas (1792–1880) I
Dental surgeon and zoologist. Professor of zoology, King's College, London.
3 letters: Selborne, 17 Feb. 1862, to R. G. P. Mintz; Selborne, [1874], to R. Owen; Selborne, 11 June 1874.

Belt, Thomas (1832–1878) I
Geologist and mining engineer.
1 letter: Ealing, 25 Feb. 1877.

Benett, Etheldred (1776–1845) I
Geologist.
1 letter: Weymouth, 22 Nov. 1830, to Charles Koenig.

Bigsby, John Jeremiah (1792–1881) I
Physician and geologist.
1 letter: Norwood, 16 Sept. 1877.
1 portrait (photo).

Blanford, William Thomas (1832–1905) I
Geologist and zoologist. Deputy superintendent, Geological Survey of India.
1 letter: Kensington, 13 June 1886.
1 portrait.

Bond, Sir Edward Augustus (1815–1898) I
Principal librarian, British Museum.
1 letter: London, 26 June 1883.
1 obituary with portrait.

Bone, Charles Richard (1808 or 1809–1875) I
Miniature painter. Draughtsman to the Museum of Economic Geology.
1 letter: n.p., 8 March 1875.

Bonney, Thomas George (1833–1923) I
Geologist. Professor of geology, University College, London.
2 letters: Cambridge, 26 Aug. 1877; Hampstead, 6 Nov. 1888.
1 portrait.

Borre, François Paul Charles Alfred Preudhomme de (1833–1905) I
Entomologist. Keeper, Royal Museum of Natural History, Brussels.
2 photographs.

Boucher de perthes. See **Perthes**.

Bowerbank, James Scott (1797–1877) I
Geologist and distillery partner.
2 letters: [London?], 1 Oct. 1841, to R. Owen; St Leonards, 27 Dec. 1868.
1 autograph.
2 portraits (1 photo).

BRADY, Sir Antonio (1811–1881) I
Admiralty official.
3 letters: Stafford, [2 Aug. 1872?]; Stafford, 26 Nov. 1872; Stafford, 27 Feb. 1873.

BRISTOW, Henry William (1817–1889) I
Geologist. Director, Geological Survey of England and Wales.
1 letter: London, 25 Oct. 1877.

BRITTON, John (1771–1857) I
Antiquary, topographer, and miscellaneous writer.
1 letter: Tavistock, 17 Nov. 1828, to D. Hodgson.

BRODIE, Peter Bellinger (1815–1897) I
Clergyman and geologist.
1 letter: Rowington, 4 May 1872.
1 portrait.

BRONGNIART, Charles-Jules-Edme (1859–1899) I
Palaeontologist and zoologist. Assistant, Natural History Museum, Paris.
2 letters: Paris, 8 April 1883, (French); Paris, 26 May 1890, (French).

BROOME, Mary Anne (formerly Lady Barker) (1831–1911) I
Author and wife of governor of Western Australia.
1 letter: Perth (Australia), n.d. (2 July).

BROWN, Frederick (1851–1941) I
Landscape painter. Slade Professor of Fine Arts, University College, London.
1 letter: Fulham, 10 March 1893, to E.W.

BROWN, Henry Yorke Lyell (1844–1928) I
Geologist. Government geologist for South Australia.
2 letters: Adelaide, 14 March 1884; Adelaide, 26 Feb. 1890.

BROWNING, Robert (1812–1889) I
Poet.
1 autograph.
1 portrait.

BUCKLAND, Francis Trevelyan (1826–1880) I
Naturalist and science writer. Government inspector of fisheries.
1 letter: London, 27 Dec. 1871.
1 portrait.

BUCKLAND, William (1784–1856) I
Geologist. First reader in geology, Oxford, and Dean of Westminster.
2 autographs.
1 portrait (pencil sketch).
1 cartoon (1842).

BUSK, George (1807–1886) I
Palaeontologist, ethnologist and surgeon.
1 letter: London, 4 Nov. 1876.
1 portrait (photo).

BUXTON, Edward North (1840–1924) I
Public servant.
1 letter: Knighton, n.d. (8 May).

CADOGAN, Henry Arthur. See CHELSEA.

CALTHROP, Claude Andrews (1844–1893) II
Painter.
1 letter: London, n.d. (20 Feb.), to E.W.

CALVIN, Sidney (1845–?) II
Keeper of Prints and Drawings, British Museum. Slade Professor of Fine Arts, Cambridge.
1 letter: London, 29 Dec. 1892.
1 portrait.

CAMPBELL, George Douglas, Eighth Duke of Argyll (1823–1900) I
Politician and amateur scientist.
3 letters: London, 20 Jan. 1866; Inveraray, 28 Oct. 1884; Inveraray, 31 Oct. 1884.
1 portrait.

CAPELLINI, Giovanni (1833–1922) II
Professor of geology and palaeontology, University of Bologna.
1 letter: Bologna, 16 Feb. 1889.
1 portrait (photo).

CARNE, Joseph Edmund (1855–1922) II
Mineralogist and applied geologist. Staff, Geological Survey of New South Wales. Later, government geologist.
1 letter: Croydon (Australia), 12 May 1892.
1 portrait (photo).

CARPENTER, Philip Herbert (1852–1891) II
Palaeontologist and zoologist. Assistant master, in charge of biology teaching, Eton College.
2 letters: Windsor, n.d. (7 March); Windsor, n.d. (7 Nov.).

CARPENTER, William Benjamin (1813–1885) II
Naturalist. Fullerian Professor of Physiology, Royal Institution, and professor of forensic medicine, University College, London.
2 letters: London, 17 Nov. 1876; London, 1 March 1877.

CARRUTHERS, William (1830–1922) II
Keeper of Botany, British Museum (Natural History).
3 letters: S. Kensington, n.d.; S. Kensington, n.d.; S. Kensington, 23 Jan. 1892.

CHARLESWORTH, Edward (1813–1893) II
Palaeontologist. Curator, museum of Yorkshire Philosophical Society. British Museum staff, 1836.
1 letter: London, n.d., to R. Owen.
1 obituary.

CHELSEA, Viscount (Henry Arthur Cadogan) (1868–1908) II
Public servant.
1 autograph.

CHURCH, Sir Arthur Herbert (1834–1915) II
Professor of chemistry, Royal Academy of Arts.
1 portrait (photo).

COLE, William Willoughby. See ENNISKILLEN.

COOKE, Edward William (1811–1880) II
Marine painter.
1 letter: Sussex, 6 Dec. 1872.

COOKSON, Henry Wilkinson (1810–1876) II
Master of Peterhouse and Vice Chancellor, Cambridge.
1 letter: Cambridge, 20 August 1871.

COPE, Edward Drinker (1840–1897) II
Palaeontologist and zoologist. Professor, University of Pennsylvania.
2 letters: Philadelphia, 27 May 1885; Philadelphia, 12 Dec. 1889.
1 portrait.

CRAWFORD, Twenty-sixth Earl of (James Ludovic Lindsay) (1847–1913) II
Astronomer, collector, and bibliophile.
1 letter: London, 9 July 1887.

CUMING, Hugh (1791–1865) II
Naturalist.
2 letters: Manila, 10 Nov. 1839, to Edward Charlesworth; London, 11 Oct. 1844, to Edward Charlesworth.
1 autograph.

DALLAS, William Sweetland (1824–1890) II
Science writer. Assistant secretary, Geological Society of London.
2 letters: London, 5 May 1884; London, 8 July 1887.
1 portrait (photo).

DAMES, Wilhelm (1843–1898) II
Professor of palaeontology and director of geological museum, University of Berlin.
3 letters: Berlin, 23 March 1883; Berlin, [9?] July 1883; Berlin, 20 June 1886.
1 portrait (photo).

DANA, Edward Salisbury (1849–1935) II
Mineralogist. Professor of physics, Yale University.
1 letter: New Haven (Connecticut), n.d. (9 Jan.).

DANA, James Dwight (1813–1895) II
Geologist. Professor of natural history, Yale University.
3 letters: New Haven (Connecticut), 3 Dec. 1880; New Haven, 28 Dec. 1880; New Haven, 29 Dec. 1880.
1 portrait.

DARWIN, Charles Robert (1809–1882) II
Naturalist.
4 letters: Farnborough, n.d. (18 Jan.), to G. R. Waterhouse; Farnborough, 8 July [1855?], to G. R. Waterhouse; Beckenham, 7 Feb. 1882; Beckenham, n.d. (13 Feb.).
1 portrait.
1 postcard of Darwin statue.

DAUBENY, Charles Giles Bridle (1795–1867) II
Chemist and botanist. Professor of chemical botany and rural economy, Oxford.
1 letter: n.p., 13 Aug. 1841, to Dr. A. [Lawler?].

DAVIDSON, Thomas (1817–1885) II
Palaeontologist.
2 letters: Brighton, 14 Dec. 1884; Brighton, 28 June 1885.
1 portrait (pencil sketch).

DAVIES, Thomas (1837–1891) II
Mineralogist. Assistant, Mineralogy Department, British Museum.
1 portrait (photo).

DAVIES, William (1814–1891) II
Palaeontologist. Assistant, Geology Department, British Museum.
2 letters: London, 19 Dec. 1877; London, 30 Aug. 1878.
1 obituary.
1 portrait (photo).

DAVIS, James William (1846–1893) II
Businessman and science amateur.
2 letters: Halifax, 25 Oct. 1884; Halifax, 5 May 1891.
1 obituary.
1 portrait (photo); 1 group photo.

DAWKINS, Sir William Boyd (1838–1929) II
Geologist, palaeontologist, and antiquary. Professor of geology, Owen's College, Manchester.
2 letters: Manchester, 29 April 1883; Woodhunt, Fallowfield, 11 Aug. 1883.

DAWSON, George Mercer (1849–1901) II
Geologist. Director, Geological Survey of Canada.
2 letters: Ottawa (Ontario), 17 July 1897; Ottawa, 12 Jan. 1898.
1 biographical notice.
2 portraits.

DAWSON, Sir John William (1820–1899) II
Geologist. Principal of McGill University, Montreal.
3 letters: Montreal, 10 June 1887; Montreal, 3 Aug. 1887; Montreal, 19 Sept. 1889.
1 obituary.
1 portrait.

DE LA BECHE, Sir Henry Thomas (1796–1855) **I & II**
Geologist. Director General, Geological Survey of Great Britain 1835–55.
3 letters: Falmouth, 1 May 1837, to Charles Koenig (**I**); London, 7 Feb. 1852, to G. R. Waterhouse (**I**); Chesterfield, 27 July 1850, to J. W. Salter (**II**).

DELGADO, Joaquim Filippe Nery (1844–1908) **II**
Palaeontologist. Director, Geological Survey of Portugal and general inspector of mines.
2 letters: Lisbon, 27 Dec. 1884; Lisbon, 24 July 1885.
1 portrait (photo).

DESHAYES, Gerard Paul (1797–1875) **II**
Palaeontologist and malacologist. Professor, Natural History Museum, Paris.
2 letters: Paris, 6 Jan. 1836, to Edward Charlesworth; Paris, 15 Jan. 1837, to Edward Charlesworth (both in French).

DESLONGCHAMPS, Eugene Eudes (1830–1889) **II**
Professor of geology, Faculty of Sciences, Caen.
1 letter: Caen, 13 July [1885?], (French).

DILKE, Sir Charles Wentworth (1843–1911) **II**
Politician and author.
1 letter: London, 24 Feb. 1882, to u.r.

DOHRN, Anton Felix (1840–1909) **II**
Zoologist. Founder and director of Zoological Station, Naples.
1 portrait (photo).

DOLLO, Louis Antoine Marie Joseph (1857–1931) **II**
Palaeontologist. Keeper, vertebrate section, Royal Museum of Natural History, Brussels.
1 letter: Brussels, 14 May 1887 (French).

DOUGLAS, Sir Robert Kennaway (1838–1913) **II**
Keeper of Oriental Printed Books and Manuscripts, British Museum.
2 letters: London, n.d. (28 Jan.); London, n.d. (3 July).

DOVER, Bishop of (The Right Reverend William Walsh) (1836–1918) **II**
Archdeacon and canon of Canterbury.
1 letter: Canterbury, n.d.

DRYDEN, Sir Henry Edward Leigh (1818–1899) **II**
Antiquary.
1 letter: [illeg.], n.d. (19 May).

DUCIE, Third Earl of (Henry John Moreton) (1827–1921) **II & VII**
Lord Lieutenant, Gloustershire.
3 letters: London, 18 June 1891, to R. Etheridge, (**VII**); London, 17 [Dec.?] 1891, to R. Etheridge, (**II**); London, 19 April 1892 (**II**).
1 autograph (**II**).

DUNCAN, Peter Martin (1821–1891) **II**
Geologist. Professor of geology, King's College, London.
2 letters: Lee, 14 Nov. 1871; London, 1 Feb. 1880.
1 autograph.
1 obituary.
1 portrait (photo).

DYER, Sir William Turner Thiselton- (1843–1928) **II**
Botanist. Director, Royal Botanic Gardens, Kew.
3 letters: Kew, 13 March 1878; Kew, 17 Jan. 1888; Kew, 6 [Aug.?] 1891.

EDWARDS, Frederick Erasmus (1799–1875) **III**
Lawyer and amateur palaeontologist.
2 letters: London, 21 Jan. 1873; London, 8 Feb. 1873.
1 group portrait.

EGERTON, Sir Philip de Malpas Grey (1806–1881) **III**
Palaeontologist.

6 letters: Southampton, [Sept. 1846], to Charles Koenig; Oulton Park, Tarporley, 24 July 1869; Oulton Park, Tarporley, 24 Jan. 1873; Oulton Park, Tarporley, 10 Nov. 1876; London, 1 July 1877; Oulton Park, Tarporley, 8 Oct. 1880.
5 obituaries.

Ellis, Sir Henry (1777–1869) **III**
Principal librarian, British Museum.
1 letter: London, 24 Nov. 1851, to G. R. Waterhouse.
1 autograph.

Enniskillen, Third Earl of (William Willoughby Cole) (1807–1886) **III**
Amateur palaeontologist and collector.
5 letters: Enniskillen, n.d., to G. R. Waterhouse; Hatfield, 1 June 1859; London, 20 June [1877?]; Enniskillen, n.d.; London, n.d. (29 July).
1 photograph.

Erdmann, Edvard (1840–?) **III**
Geologist. Staff, geological survey of Sweden, and amanuensus, Stockholm geological museum.
1 photograph.

Etheridge, Robert Sr (1819–1903) **III**
Palaeontologist. Assistant Keeper, Department of Geology, British Museum.
2 letters: S. Kensington, 7 Dec. 1892; Chelsea, 24 Dec. 1892.
2 biographical notices, 1 with portrait.

Etheridge, Robert Jr (1847–1920) **III**
Curator, Australian Museum, Sydney. Earlier, palaeontologist to Geological Survey of New South Wales.
2 letters: Sydney, 19 Feb. 1890; S. Kensington, n.d.
1 photograph.

Ettingshausen, Constantin von (1826–1897) **III**
Palaeontologist, botanist, and geologist. Professor of botany, University of Graz.
2 letters: Graz, 30 April 1883; Graz, 27 Dec. 1883.
1 portrait (photo).

Evans, Sir John (1823–1908) **III**
Archaeologist and numismatist.
1 letter: Hemel Hempstead, 10 Nov. 1892.
3 portraits (1 photo).
1 autograph.

Falconer, Hugh (1808–1865) **III**
Palaeontologist and botanist. Assistant surgeon, Bengal establishment of East India Co. Superintendant, Saharanpur Botanical Gardens.
1 letter: London, n.d. (30 Aug.).
2 autographs.
2 portraits.

Fawcett, Henry (1833–1884) **III**
Statesman. Professor of political economy, Cambridge.
1 autograph.

Feilden, Henry Wemyss (1838–1921) **III**
Military man and Arctic explorer.
3 letters: n.p., n.d.; Aldershot, 12 Nov. 1878; Aldershot, 24 April 1878.

Festing, Edward Robert (1839–1912) **III**
Science Museum Director, South Kensington.
2 letters: S. Kensington, 28 June 1886; S. Kensington, n.d. (22 Nov.).

Fielding, Edward **III**
London landscape painter.
1 letter: London, n.d.
1 autograph.
1 portrait (photo).

Fisher, Osmond (1817–1914) III
Clergyman and physical geologist.
1 letter: Huntingdon, 30 July 1910.
1 portrait.

Fitzclarence, G. A. F. See **Munster**.

Fletcher, Sir Lazarus (1854–1921) III
Keeper of Mineralogy, British Museum (Natural History). Later Director.
2 letters: S. Kensington, 14 Aug. 1884; London, 24 June 1889.
1 photograph.

Flight, Walter (1841–1885) III
Mineralogist. Chemist to Department of Mineralogy, British Museum (Natural History).
3 letters: [S. Kensington?], n.d.; [S. Kensington?], n.d.; London, n.d.
1 photograph.

Flower, Sir William Henry (1831–1899) III
Director, British Museum (Natural History).
3 letters: London, 9 Feb. 1884; York, 16 Dec. 1886; S. Kensington, 22 Dec. 1892.
1 portrait.

Forbes, David (1828–1876) III
Geologist and philogist.
1 letter: London, 28 Nov. 1879 [sic].

Forbes, Edward, Jr (1815–1854) III
Naturalist. Regius Professor of Natural History, University of Edinburgh.
3 letters: n.p., n.d., to Edward Charlesworth; n.p., n.d., to Edward Charlesworth; n.p., n.d. (Monday, 23 Aug.), to G. R. Waterhouse.
1 poem, *The Red Tape Worm.*

Forrest, John (1847–1918) III
Australian explorer and politician. First Premier of Western Australia.
2 letters: [London?], 13 June 1887; Western Australia, 9 Feb. 1888.
1 portrait.

Foster, Sir Clement Le Neve Foster (1841–1904) III
Inspector of mines and professor of mining, Royal School of Mines.
1 letter: London, 2 Dec. 1891.
1 portrait.

Foster, Sir Michael (1836–1907) III
Professor of physiology, Cambridge.
1 letter: London, n.d.
1 biographical notice.
2 portraits.

Fox-strangways, C. E. See **Strangways**.

Francis, William (1819–1904) III
Journal editor and printer.
1 letter: London, 26 Aug. 1890.

Franks, Sir Augustus Wollaston (1826–1897) III
Keeper, Department of British and Medieval Antiquities and Ethnography, British Museum.
4 letters: London, 4 Nov. 1884; London, 28 Feb. 1887, to Mr. Brown; London, 3 July 1888; London, 17 Dec. 1891.

Fraser, Sir Malcolm (1834–1900) III
Civil engineer and government official for Western Australia.
1 letter: London, 1 Aug. 1893.
1 portrait.

Fritsch, Anton (Frić, Antonin [Jan]) (1832–1913) III
Palaeontologist. Professor of comparative anatomy, University of Prague, and director of natural history department, Zoological Museum of Bohemia.
2 portraits (photos).

Fry, Francis (1803–1886) **III**
Bibliographer.
1 letter: Bristol, 17 Nov. 1875.

Furnivall, Frederick James (1825–1910) **III**
Scholar and editor.
1 letter: London, 13 March 1896.

Galton, Sir Douglas Strutt (1822–1899) **III**
Captain, royal engineers; government adviser on technical and scientific matters.
1 letter: London, 12 Feb. 1895.
2 portraits.

Galton, Sir Francis (1822–1911) **XI**
Social scientist.
1 letter: London, 24 Sept. 1904.
1 portrait.

Gaudry, Albert Jean (1827–1908) **III**
Palaeontologist. Professor, Natural History Museum, Paris.
3 letters: Paris, 11 March 1884, (French); Paris, 11 March 1888, (French); n.p., 7 March 1890, (French).
1 portrait (photo).

Geikie, Sir Archibald (1835–1924) **III**
Geologist. Director General, Geological Survey of Great Britain 1881–1901.
2 letters: Girvan, 16 May 1864; London, 11 [illeg.] 1895.
1 biographical notice.
2 portraits.

Geikie, James (1839–1915) **III**
Geologist. Murchison Professor of Geology, University of Edinburgh.
2 letters: Edinburgh, 19 [Nov.?] 1891; Edinburgh, 16 April 1892.

Giglioli, Enrico Hillyer (1845–1909) **III**
Naturalist. Professor, comparative anatomy of vertebrates, and director of the zoological museum, Florence.
2 letters: Florence, 6 Sept. 1889; Florence, 18 Oct. 1889.
1 portrait (photo).

Gilbert, Sir John (1817–1897) **III**
Illustrator and historical painter.
3 letters: Blackheath, n.d. (Sunday, 27 July); Blackheath, 19 Sept. 1896; Blackheath, [illeg.].
1 portrait (photo).
1 of his pencil sketches.

Godman, Frederick Du Cane (1834–1919) **III**
Naturalist. Trustee, British Museum.
2 letters: Horsham, n.d. (18 March); London, n.d. (7 Nov.).

Godwin-austen, Robert Alfred Cloyne (1808–1884) **III**
Geologist.
1 letter: Guildford, 3 Sept. [1877], to T. Rupert Jones.
1 portrait.

Gould, John (1804–1881) **III**
Ornithologist.
1 ink sketch of bird bill.

Gray, George Robert (1808–1872) **III**
Zoologist. Assistant Keeper, Zoology Department, British Museum.
1 autograph.
1 portrait (photo).

Gray, John Edward (1800–1875) **III**
Naturalist. Keeper, Zoology Department, British Museum.
2 letters: n.p., 1 July 1829, to Edward Charlesworth; London, n.d.
1 autograph.

GREEN, Alexander Henry (1832–1896) **III**
Geologist. Professor of geology, Oxford.
1 letter: Oxford, 6 Dec. 1891.
1 portrait (photo).

GRIFFITH, Sir Richard John (1784–1878) **III**
Geologist and civil engineer.
1 autograph.

GUENTHER, Albert Charles Lewis Gotthilf (1830–1914) **III**
Zoologist. Keeper, Zoology Department, British Museum (Natural History).
1 letter: London, 2 March 1893.
1 autograph.
2 portraits (photos).

GUNN, John (1801–1890) **III**
Clergyman and amateur geologist.
1 letter: [London?], 17 Aug. 1883.
1 portrait.

GURNEY, Hudson (1775–1864) **III**
Antiquary and verse writer.
2 letters: London, 23 May 1859, to u.r.; Norwich, 5 May 1864.

GURNEY, John Henry (1848–1922) **III**
Ornithologist.
2 letters: Norwich, n.d. (19 Oct.); Aldboro, 7 [Sept.?] 1891.
1 portrait.

HAAST, Sir John Francis Julius von (1824–1887) **IV**
Geologist and explorer. Director of the Canterbury Museum and professor of geology, Christchurch, New Zealand.
2 letters: n.p., 8 July 1886; S. Kensington, 10 Nov. 1886.
1 obituary.
1 portrait (photo).

HANCOCK, Albany (1806–1873) **IV**
Zoologist.
1 autograph.

HARDMAN, Edward Townley (1845–1887) **IV**
Geologist. Staff, Geological Survey of Ireland.
2 letters: Dublin, 5 March 1886; Dublin, 26 March 1886.

HARKNESS, Robert (1816–1878) **IV**
Geologist. Professor of geology, Queen's College, Cork.
1 autograph.
1 portrait (photo).

HARLEY, George (1829–1896) **IV**
Physician. Professor of medical jurisprudence at University College, London, and Physician to the Hospital.
1 letter: London, 9 Aug. 1889.

HARLEY, John **IV**
Pharmacist.
2 letters: London, 16 June 1884; London, 20 June 1884.

HARMER, Frederic William (1835–1923) **IV**
Amateur palaeontologist and geologist. Chairman and director, Norwich Electrical Co.
2 letters: Norwich, 25 April 1891; Norwich, 21 March 1893.

HAWKINS, Edward (1780–1867) **IV**
Numismatist and antiquary. Keeper of antiquities, British Museum.
2 letters: n.p., n.d., to u.r.; London, 22 March [1849?], to u.r.

HECTOR, Sir James (1834–1907) **IV**
Geologist. Director, Geological Survey of New Zealand.
2 letters: [illeg.], 14 [Aug.] 1870; Wellington (N.Z.), 16 Nov. 1870.
1 portrait (photo).

HENSLOW, John Stevens (1796–1861) **IV**
Botanist. Professor of botany, Cambridge.
2 letters: Suffolk, 15 Dec. 1844, to Edward Charlesworth; Suffolk, 27 Oct. 1853, to S. P. Woodward.

HERBERT, Auberon Edward William Molyneux (1838–1906) **IV**
Political philosopher and author.
1 letter: London, n.d. (22 July).

HICKS, Henry (1837–1899) **IV**
Geologist and medical practitioner.
2 letters: London, 27 Nov. 1892; London, 5 Dec. 1892.
1 portrait (photo).

HINDE, George Jennings (1839–1918) **IV**
Palaeontologist.
2 letters: Mitcham, n.d.; Croydon, 14 Feb. 1890.

HITCHCOCK, Charles Henry (1836–1919) **IV**
Geologist. Professor of geology and mineralogy, Dartmouth College.
1 letter: Hanover, New Hampshire; 21 May 1883.

HODSON, Samuel John (1836–1908) **IV**
Watercolour painter.
2 letters: London, 8 March 1893, to E. W.; London, 23 April 1893, to E. W.

HOLL, Harvey Buchanan (1820–1886) **IV**
Palaeontologist and geologist.
1 letter: Worcester, 27 Jan. 1885.
1 portrait (photo).

HOOKER, Sir Joseph Dalton (1817–1911) **IV**
Botanist and traveller. Director, Royal Botanic Gardens, Kew.
4 letters: Kew, 4 March 1878; Kew, 12 March 1878; Kew, 15 March 1878; Sunningdale, 17 March 1899.
1 autograph.

HORNER, Leonard (1785–1864) **IV**
Geologist and educational reformer.
2 letters: London, 11 June 1861; Folkestone, 1 Aug. 1861.

HORSLEY, John Callcott (1817–1903) **IV**
Painter.
2 letters: Kensington West, 1 Feb. 1876, to E. W.; Kensington West, 24 Nov. 1876.

HOWARD, H. See NORFOLK.

HOWELL, Henry Hyatt (1834–1915) **IV**
Director, Geological Survey of Great Britain.
1 letter: Edinburgh, 13 March [1891?].
1 portrait (photo).

HOWES, Thomas George Bond (1853–1905) **IV**
Zoologist. First professor of zoology, Royal College of Science, South Kensington.
2 letters: S. Kensington, 1 Nov. 1892; S. Kensington, 9 Dec. 1892.
1 portrait (photo).
1 group photograph [Royal College of Science class?].

HOWORTH, Sir Henry Hoyle (1842–1923) **IV**
Public servant. Amateur geologist and ethnologist.
2 letters: Manchester, 13 June 1889; Manchester, 3 May 1891.
1 biographical notice.
1 portrait (photo).

HUDLESTON (formerly Simpson), Wilfred Hudleston (1828–1909) **IV**
Geologist.
2 letters: London, 13 May 1890; London, 26 Nov. [1891].
1 portrait (photo).

HUGHES, Joshua (1807–1889) **I**
Bishop of St Asaph.
1 letter: St Asaph, 15 Feb. 1865.

HUGHES, Thomas McKenny (1831–1917) **IV**
Geologist. Woodwardian Professor of Geology, Cambridge.
3 letters: London, 29 Jan. 1873; Crieff, 16 Nov. 1888; Cambridge, 23 Feb. 1893.
1 portrait (photo).

HULKE, John Whitaker (1830–1895) **IV**
Surgeon.
2 letters: London, n.d. (5 Oct.); London, 25 March 1893.
2 obituaries with portraits.

HULL, Edward (1829–1917) **IV**
Consulting geologist. Professor of geology, Royal College of Science, Dublin.
2 letters: Dublin, 8 Dec. 1884; Dublin, 18 Nov. 1886.
1 portrait (photo).

HUTTON, William (1798–1860) **IV**
Geologist.
1 letter: [Lyme Regis?], 27 Jan. 1844, to Edward Charlesworth.

HUXLEY, Thomas Henry (1825–1895) **IV**
Zoologist, palaeontologist and ethnologist. Dean, Royal College of Science, South Kensington.
4 letters: S. Kensington, 4 [Feb.?] 1876; London, [26 Sept. 1877?]; Eastbourne, [11 July 1894?]; Eastbourne, [30 Oct. 1894?].
1 biographical notice with portraits.
1 cartoon.
3 portraits.

HYATT, Alpheus (1838–1902) **IV**
Naturalist. Professor of zoology and palaeontology, Massachusetts Institute of Technology; professor of biology, Boston University.
1 letter: Boston, 14 Feb. 1876.

JAMESON, Robert (1774–1854) **IV**
Mineralogist. Regius Professor of Natural History and keeper of the museum, University of Edinburgh.
1 letter: 29 March 1842, to u.r.

JEFFREYS, John Gwyn (1809–1885) **IV**
Conchologist.
3 letters: Hertford, 17 Nov. 1876; London, 2 Feb. 1877; London, 28 Feb. 1877.

JENKINS, Henry Michael (1840–1886) **IV**
Agriculturist. Secretary, Royal Agricultural Society.
2 letters: London, 16 Feb. 1886; London, 17 Feb. 1886.
1 portrait (photo).

JOHNSON, Goddard **IV**
Antiquary.
1 letter: Norwich, 28 Dec. 1851, to W. S. Fitch.

JONES, John Winter (1805–1881) **IV**
Principal Librarian, British Museum.
2 letters: London, 8 April 1875; [illeg.], 22 Sept. 1877.

JONES, Thomas Rupert (1819–1911) **IV**
Geologist and palaeontologist. Professor of geology, Royal Military College and at the Staff College, Sandhurst.
2 letters: Chelsea, 12 Nov. 1891; Chelsea, n.d.

1 biographical notice.
2 portraits (1 photo).

JONES, Thomas Rymer (1810–1880) **IV**
Zoologist. First professor of comparative anatomy, King's College, London.
1 letter: London, 28 Dec. 1839, to Van Voorst.

JUDD, John Wesley (1840–1916) **IV**
Professor of geology and Dean, Royal College of Science, South Kensington.
2 letters: S. Kensington, 4 April 1883; S. Kensington, 22 June 1886.
2 portraits.
1 group photograph [Royal College of Science?].

JUKES, Joseph Beete (1811–1869) **IV**
Geologist. Director, Geological Survey of Ireland.
1 letter: Dartmouth, 25 Aug. 1867.
1 autograph.
1 portrait (photo).

KELTIE, Sir John Scott (1840–1927) **IV**
Geographer.
1 letter: London, 27 March 1893.
1 portrait.

KELVIN, Lord, First Baron (William Thomson) (1824–1907) **IV**
Physicist. Professor of natural philosophy, Glasgow University.
3 portraits.

KENT, William Saville **IV**
Marine biologist. Assistant, British Museum (Natural History).
1 letter: [London?], 9 April 1892.
1 portrait.

KING, William Jr. **IV**
Director, Geological Survey of India.
1 letter: Calcutta, 20 May 1890.

KOENEN, Adolf von (1837–1915) **IV**
Geologist and palaeontologist. Professor of geology and palaeontology and director, Royal Geological Museum, University of Goettingen.
3 letters: Marburg, 15 Dec. 1877; Goettingen, 10 Aug. 1888 to E.W.; Goettingen, 13 March 1890.
1 portrait (photo).

KONINCK, Laurent-Guillaume de (1809–1887) **IV**
Chemist and palaeontologist. Professor of chemistry, University of Liège.
2 letters: Liège, 27 Sept. 1875; Liège, 15 Aug. 1883 (both in French).
1 pencil sketch of specimen.
1 portrait (photo).

LADBROOKE, John Berney (1803–79) **V**
Landscape painter.
1 letter: Mousehold Heath (Norfolk); 15 May n.d.

LANKESTER, Sir Edwin Ray (1847–1929) **V**
Zoologist. Linacre Professor of Comparative Anatomy, Oxford. Keeper of Zoology and later Director, British Museum (Natural History).
4 Letters: Suffolk, 25 Sept. [1898]; Paris, n.d. (4 May); London, n.d. (22 Aug.); London, n.d.
2 portraits

LAPWORTH, Charles (1842–1920) **V**
Geologist. Professor of geology, Birmingham University.
3 letters: Birmingham, 24 Nov. 1891; Birmingham, 24 Nov. 1891; Birmingham, 26 Nov. 1891.
2 portraits (1 photo).

LEE, Henry (1826–1888) **V**
Naturalist to Brighton Aquarium.

2 letters: Margate, 29 Oct. 1871; London, 1 Dec. 1873.
1 portrait (photo).

LEE, John Edward (1808–1887) V
Geologist and antiquary.
2 letters: Torquay, 26 July 1884; Torquay, 24 Feb. 1885.

LEIDY, Joseph (1823–1891) V
Biologist. Professor of anatomy, University of Pennsylvania.
1 letter: London, 3 July 1889.

LEWIS, Henry Carvill (1853–1888) V
Geologist. Professor of geology, Haverford College; of mineralogy, Academy of Natural Sciences, Philadelphia.
2 letters: London, n.d. (18 Nov.), to E.W.; Manchester, 25 [Feb.?] 1887.
1 portrait (photo).

LINDLEY, John (1799–1865) V
Botanist and horticulturist. First professor of botany, University of London.
1 letter: London, 25 Dec. 1837, to his mother.

LINDSAY, James Ludovic. See CRAWFORD.

LINDSTROEM, Gustaf (1829–1901) V
Director, palaeontological section of the Royal Museum, Stockholm.
3 letters: Paris, 2 July 1874; Wisby, Sweden, 6 Aug. 1874; Stockholm, 1 Dec. 1884.
1 portrait.

LINNARSSON, Jonas Gustaf Oskar (1841–1881) V
Palaeontologist and geologist to Geological Survey of Sweden.
1 letter: Karleby, Sweden; 24 Sept. 1876.

LIVERSIDGE, Archibald (1847–1927) V
Professor of chemistry and mineralogy, University of Sydney. Dean of the faculty of sciences.
2 letters: Sydney, 9 Sept. 1891, to T. Rupert Jones; Sydney, 27 Dec. 1891.

LOCKYER, Sir Joseph Norman (1836–1920) V
Astronomer. Director of Solar Physics Observatory and professor of astronomical physics, Royal College of Science, South Kensington.
1 letter: S. Kensington, n.d. (31 May).
1 autograph.
3 portraits (1 photo).

LOGAN, Sir William Edmond (1798–1875) V
Geologist. Director General, Geological Survey of Canada.
1 autograph.

LONSDALE, William (1794–1871) V
Geologist. Curator and librarian, Geological Society of London.
1 autograph.

LOVEN, Sven (1809–1895) V
Marine biologist. Professor, Academy of Sciences, and keeper of invertebrate section, Royal Museum, Stockholm.
1 letter: Stockholm, 9 Sept. 1876.

LOWRY, Joseph Wilson (1803–1879) V
Engraver of scientific subjects.
3 letters: London, 19 March 1873; London, 11 April 1878; London, 9 April 1879.
1 portrait (photo).

LUBBOCK, Sir John (1834–1913) V
Banker, man of science, and author.
3 letters: Kent, 10 Feb. 1889; London, n.d.; London, 12 May 1902.
2 portraits (1 photo).

Lutken, Christian Frederik (1827–1901) V
Assistant Zoologist, Zoological Museum, University of Copenhagen.
1 portrait (photo).

Lycett, John (?–1882) V
Geologist and palaeontologist.
3 letters: London, n.d.; Scarborough, 12 Aug. 1875; Scarborough, 13 April 1878.

Lyell, Sir Charles (1797–1875) V
Geologist. First professor of geology, King's College, London.
4 letters: London, 2 May 1839, to A. Fitch; London, 9 Feb. 1856, to S. P. Woodward; London, 14 Dec. 1860, to S. P. Woodward; London, 9 March 1861, to S. P. Woodward.
1 autograph.
1 portrait (photo).

Mcandrew, Robert (1802–1873) V
Marine zoologist.
1 autograph.
1 portrait (photo).

Major, Charles Immanuel Forsyth (1843–1923) V
Scientist and explorer.
2 letters: Florence, 8 April 1891; Lausanne, 13 Dec. 1891.

Malaise, Constantin Henri Gérard Louis (1834–?) V
Palaeontologist and mineralogist. Professor, agricultural institute of Belgium.
1 autograph.
1 portrait (photo).

Mansel-pleydell, John Clavell (1817–1902) VI
Antiquary and naturalist.
2 letters: Blandford, 14 Jan. 1885; Wimborne, 7 Oct. [1888?].

Mantell, Gideon Algernon (1790–1852) V
Geologist.
2 letters: n.p., 1852, to S. P. Woodward; London, 26 Jan. 1852, to u.r.

Marcou, Jules (1824–1898) V
Geologist, palaeontologist, and topographer.
1 autograph.
1 portrait (photo).

Marks, Henry Stacy (1829–1898) V
Artist.
1 letter: London, 11 Dec. 1875, to Roberts.

Marr, John Edward (1857–1933) V
Geologist. Woodwardian Professor of Geology, Cambridge.
2 letters: Cambridge, 31 Dec. 1883; Windermere, 6 Aug. 1887.

Marsh, Othniel Charles (1831–1899) V
Professor of palaeontology, Yale University.
3 letters: New Haven (Connecticut), 28 July 1880, to T. H. Huxley; New Haven, 12 March 1885; New Haven, 21 Nov. 1889.
1 portrait.
2 cartoons.

Martineau, Harriet (1802–1876) V
Miscellaneous writer.
1 letter: Ambleside, n.d. (10 Jan.), to u.r.

Maskelyne, Mervyn Herbert Nevil Story-(1823–1911) V
Mineralogist. Keeper of Mineralogy, British Museum (Natural History).
3 letters: London, n.d. (28 July) [1887?]; Swindon, n.d. (3 Sept.) [1887?]; Swindon, 10 Feb. [1893].
1 portrait.

Maude, Sir George Ashley (1817–1894)
Crown equerry and Master of the Horse.
2 letters: n.p., 16 Aug. 1889; [illeg.], 4 Oct. 1893.

Maw, George (1832–1912) V
Tile manufacturer. Amateur botanist and geologist.
2 letters: Broseley, 31 Jan. 1885; Broseley, 17 March 1885.

Medlicott, Henry Benedict (1829–1905) V
Geologist. Director, Geological Survey of India.
2 letters: Calcutta, 27 Oct. 1876; Calcutta, 9 Feb. 1878.

Miall, Louis Compton (1842–1921) V
Professor of biology, University of Leeds.
1 biographical notice with portrait.

Miers, Sir Henry Alexander (1858–1942) V
Mineralogist. Professor of mineralogy, Oxford. Earlier, assistant, British Museum.
1 letter: Oxford, 20 May 1897.

Miller, Hugh (1802–1856) V
Writer and geologist.
1 letter: Portobello, 24 May 1856, to [S. P.] Woodward.

Miller, Hugh, Jr (1850–1896) VI
Geologist. Staff, Geological Survey of Scotland.
1 letter: Brora, 7 Sept. 1891.

Milne, John (1850–1913) V
Mining engineer and seismologist.
2 letters: Croydon, n.d.; n.p., n.d. (6 Sept.).
1 portrait (photo).

Milne-edwards, Alphonse (1835–1900) V
Professor, later Director, Natural History Museum, Paris.
2 letters: Paris, 28 March 1879; Paris, 29 Nov. 1888 (both in French).

Milne-edwards, Henri (1800–1885) V
Professor, Natural History Museum, Paris, and Dean of the Faculty of Sciences.
1 obituary.
1 portrait (photo).

Mitchinson, John (1833–1918) V
Canon of Gloucester Cathedral and Master of Pembroke College, Oxford.
1 letter: Atherstone, 15 March 1899.

Mivart, St George Jackson (1827–1900) V
Biologist.
1 letter: Chilworth, 3 Nov. 1892.
1 portrait.

Moeller, Valerian Ivanovich (1840–?) V
Palaeontologist and geologist. Professor of palaeontology, Institute of Mines, St. Petersburg.
1 portrait (photo).

Mojsisovics Edler von **Mojsvár**, Edmund (1839–1907) V
Assistant director, Imperial geological institution, Vienna.
1 letter: Radstadt (Austria), 13 Aug. 1889 (German).

Moore, Charles (1815–1881) V
Geologist.
1 autograph.
1 portrait (photo).
3 group photographs of geological field excursion.
1 photograph of fossil collection [Moore's, at Literary Institution of Bath ?].

Moreton, Henry John. See **Ducie**.

Morris, John (1810–1886) **V**
Geologist. Professor of geology, University College, London.
6 letters: Three with no indication of place or date; Oxford, n.d.; [London?], n.d.; Bournemouth, [1884].
1 obituary.
1 portrait (photo).

Morse, Edward Sylvester (1838–1925) **V**
Director, Peabody Academy of Science, Salem, Massachusetts.
3 letters: Salem, Mass., 7 July 1884; London, 21 May 1888; Salem, Mass., 9 Nov. 1888.

Moseley, Henry Nottidge (1844–1891) **V**
Naturalist. Linacre Professor of Comparative Anatomy, Oxford.
2 letters: Oxford, 19 April 1884; Oxford, 24 Feb. 1887.

Mueller, Hugo (?–1915) **V**
Chemist.
1 letter: Camberley, 12 April 1890.

Munster, First Earl of (George Augustus Frederick Fitzclarence) (1794–1857) **V**
Public servant.
1 autograph.

Murchison, Sir Roderick Impey (1792–1871) **V**
Geologist. Director General, Geological Survey of Great Britain 1855–71.
4 letters: London, 5 Dec. 1866; London, 12 March 1868; n.p., 18 March 1868; [London], 6 Nov. 1868.
1 autograph.
2 portraits (1 photo).
1 group photograph [geological survey?].

Murie, James (?–1925) **V**
Assistant librarian and secretary, Linnean Society.
1 letter: Leigh, 15 Oct. 1889.

Murray, Sir John (1841–1914) **V**
Marine naturalist and oceanographer.
1 letter: Edinburgh, 7 Sept. 1889.
1 portrait.

Nares, Sir George Strong (1831–1915) **VI**
Admiral and Arctic explorer.
1 letter: Surbiton, 8 March [1889?].

Neumayr, Melchior (1845–1890) **VI**
Palaeontologist and geologist. Professor of palaeontology, University of Vienna.
1 letter: Vienna, 8 Oct. 1883 (German).

Nevill, Henry Ralph (1821–1900) **VI**
Clergyman. Canon of Norwich Cathedral.
3 letters: Norwich, 16 Nov. 1874; Norwich, 5 July 1879; Norwich, 9 July 1879.

Newberry, John Strong (1822–1892) **VI**
Palaeontologist and geologist. Professor of geology, Columbia University School of Mines.
2 letters: New York City, 4 [June?] 1886; New York City, 13 Feb. 1888.

Nicholson, Henry Alleyne (1844–1899).
Biologist. Regius Professor of Natural History, University of Aberdeen.
2 letters: Aberdeen, 22 Sept. 1891; Aberdeen, 12 April 1892.
1 portrait.

Nolan, Joseph (1841–1902) **II**
Geologist. Senior geologist, Irish Office, Geological Survey.
2 letters: Norwich, 10 Feb. 1891; Norwich, 21 Dec. 1892.

Nordenskioeld, Nils Adolf Erik (1832–1901) **VI**
Naturalist and Arctic explorer. Keeper of the mineralogical section, Royal Museum, Stockholm.
1 letter: [illeg.], 1875.

1 obituary.
1 portrait.

Norfolk, Fifteenth Duke of (Henry FitzAlan-Howard) (1847–1917) **VI**
Public servant.
1 autograph.

Norton, Caroline Elizabeth Sarah (1808–1877) **VI**
Poetess.
1 letter: n.p., n.d., to [illeg.].

Oldham, Thomas (1816–1878) **VI**
Geologist. Superintendent, Geological Survey of India.
2 letters: Rugby, 3 Nov. 1876; Rugby, 15 [July?] 1878.

Oliver, Samuel Pasfield (1838–1907) **VI**
Geographer and antiquary.
1 letter: Anglesey (Gosport), 26 June 1892.

Owen, Sir Francis Philip Cunliffe (1828–1894) **VI**
Director, Science Museum, South Kensington.
2 letters: S. Kensington, 6 Feb. 1889; S. Kensington, 9 Feb. 1889.

Owen, Hugh **VI**
Chief cashier, Great Western Railway.
3 letters: London, 20 Nov. 1886; London, 26 March 1893, to E.W.; London, 14 April 1893, to E.W.
3 portraits (2 photos).

Owen, Sir Richard (1804–1892) **VI & IX**
Naturalist. Superintendent, Natural History Departments, British Museum.
(All items in **IX**, except where otherwise indicated).
51 letters: London, 12 Feb. 1874 (**VI**); London, 29 Nov. 1875, to E.W.; S. Kensington, 7 Oct. 1881; East Sheen, 10 Sept. 1882; S. Kensington, 1 Oct. 1883; S. Kensington, 24 Dec. 1883 (**VI**); East Sheen, 4 Jan. 1884; London, 10 Jan. 1884, from F. Justen Dulan & Co.; East Sheen, 12 Jan. 1884; East Sheen, 22 Jan. 1884; S. Kensington, 11 March 1884 (**VI**); East Sheen, 27 March 1884; East Sheen, 28 March 1884; East Sheen, 11 April 1884; East Sheen, 13 May 1884; East Sheen, 22 May 1884; East Sheen, 29 May 1884; East Sheen, 4 July 1884; East Sheen, 9 July 1884; East Sheen, 30 July 1884; East Sheen, 8 Jan. 1885; East Sheen, 16 Jan. 1885; East Sheen, 22 Jan. 1885; East Sheen, 24 March 1885; East Sheen, 1 April 1885; East Sheen, 21 April 1885; East Sheen, 16 May 1885; East Sheen, 17 July 1885; East Sheen, 21 July 1885, to Miss. W.; East Sheen, 17 Aug. 1885; East Sheen, 11 Sept. 1885; East Sheen, 8 Oct. 1885; East Sheen, 12 Oct. 1885; East Sheen, 22 Oct. 1885 (**VI**); East Sheen, 12 Dec. 1885 (**VI**); East Sheen, 17 Dec. 1885; East Sheen, 9 May 1886; East Sheen, 26 May 1886 (**VI**); East Sheen, 13 Dec. 1886; East Sheen, 20 Jan. 1887; East Sheen, 3 Feb. 1887 (**VI**); East Sheen, 15 Feb. 1887; East Sheen, 28 Feb. 1887; East Sheen, 19 March 1887; East Sheen, 6 April 1887; East Sheen, 8 April 1887; East Sheen, 11 June 1887; East Sheen, 9 March 1888; East Sheen, 13 March 1888; East Sheen, 6 June 1888; East Sheen, n.d.
8 biographical notices.
12 obituaries (1 in **VI**).
10 reprints of lectures.
8 portraits (1 photo) (3 in **VI**).
1 view of this residence at East Sheen.
9 cartoons, etc.

Packard, Alpheus Spring, Jr (1839–1905) **VI**
Entomologist. Professor of zoology and geology, Brown University. Earlier, curator, Peabody Academy of Science.
2 letters: Salem, Mass., 18 Feb. 1875; Salem, Mass., 10 Jan. 1876.

Paget, Sir James (1814–1899) **VI**
Surgeon.
1 letter: London, 31 Dec. 1892.
1 portrait.

Panizzi, Sir Anthony (1797–1879) **VI**
Principal Librarian, British Museum.
1 autograph.

PARKER, William Kitchen (1823–1890) **VI**
Medical practitioner and comparative anatomist. Hunterian Professor of Comparative Anatomy, Royal College of Surgeons.
1 autograph.
1 obituary.

PARSONS, Alfred William (1847–1920) **VI**
Painter and illustrator.
2 letters: [London?], n.d. (31 Aug.), to Mrs [Sloan?]; Boston, Mass., n.d. (17 March), to Miss W.

PARTON, Ernest (1845–1933) **VI**
Landscape painter.
1 letter: Wargrave, 23 April 1889, to E.W.

PAVLOV, Aleksei Petrovich (1854–1929) **VI**
Geologist. Professor, University of Moscow.
2 letters: n.p., n.d., to E.W.; n.p., 19 May 1892.

PEEL, Arthur Wellesley (First Viscount Peel) (1829–1912) **VI**
Speaker of the House of Commons.
1 letter: London, 21 June 1893, to [illeg.].

PENGELLY, William (1812–1894) **VI**
Geologist.
2 letters: Torquay, 16 Oct. 1884; Torquay, 9 Feb. 1889.
1 autograph.
1 portrait (photo).
1 poem.

PERRY, John (1850–1920) **VI**
Electrical engineer and inventor. Professor of mechanics and mathematics, Royal College of Science, South Kensington. Earlier, professor of mechanical engineering and applied mathematics, Finsbury Technical College.
1 letter: S. Kensington, 9 Sept. 1889.
1 portrait (photo).
1 cartoon.

PERTHES, Jacques Boucher de Crèvecoeur de (1788–1868) **VI**
Administrator and archaeologist.
1 portrait.

PHILLIPS, John (1800–1874) **VI**
Professor of geology, Oxford.
8 letters: Oxford, 2 Nov. 1867; Oxford, 9 Sept. 1869, to Mrs Fitch; n.p., 11 May 1870; Oxford, 3 Sept. 1870; Oxford, 26 Oct. 1871, to u.r.; Oxford, 5 Nov. 1871; n.p., 7 Nov. 1871; Oxford, 29 Jan. 1873.
1 portrait.

POORE, George Vivian (1843–1904) **VI**
Physician and authority on sanitation.
2 letters: London, 7 Oct. 1888; London, 18 Oct. 1888.

POULTON, Sir Edward Bagnall (1856–1943) **VI**
Zoologist. Professor of zoology, Oxford.
1 biographical notice with portrait.

POWRIE, James **VI**
Palaeontologist.
1 letter: Forfar, 13 June 1887.
1 autograph.
1 portrait (photo).

PREECE, William Henry (1834–1913) **VI**
Electrical engineer. Engineer in chief to the Post Office.
1 portrait.

Prestwich, Sir Joseph (1812–1896) **VI**
Geologist. Professor of geology, Oxford.
5 letters: Shoreham, n.d. (5 [Aug?]), to Miss W.; Oxford, n.d. (8 [Nov.?]); London, 2 Jan. 1889; Shoreham, 10 [Oct.?] 1892; Shoreham, n.d. (20 March).
1 biographical notice.
3 portraits.

Preudhomme de borre, Alfred. See **Borre**.

Prinsep, Valentine Cameron (1838–1904) **VI**
Artist.
2 autographs.

Rae, John (1813–1893) **VII**
Arctic explorer.
1 letter: S. Kensington, 19 April 1878.
2 autographs.
1 obituary.
1 portrait (photo).

Ralston, W. R. S. See **Shedden**.

Ramsay, Sir Andrew Crombie (1814–1891) **VII**
Geologist. Director General, Geological Survey of Great Britain 1871–81.
2 letters: London, 28 Dec. 1869; [London], 12 Sept. 1872.
1 autograph.
2 portraits (1 photo).

Ramsay, Edward Pearson (1842–1916) **VII**
Zoologist. Curator, Australian Museum, Sydney.
1 letter: Sydney, 2 May 1888.
1 portrait (photo).

Rayleigh, Third Baron (John William Strutt) (1842–1919) **VII**
Mathematician and physicist. Professor of experimental physics, Cambridge.
1 autograph.
2 portraits.

Read, Clare Sewell (1826–1905) **VII**
Agriculturist.
1 letter: London, 22 May [1871?], to Mr [W. H.?] Page.
1 portrait.

Reclus, Elisée (1830–1905) **VII**
Geographer. Professor of geography, New University, Brussels.
1 letter: Paris, 6 Jan. 1872, (French).
2 petitions.
1 letter discussing Reclus (From F. D. [Liblane?], Camden Town, 6 Feb. 1872).

Reed, William (1810–1892) **VII**
Medical practitioner and amateur geologist.
1 letter: York, 5 Oct. 1883.

Reeks, Trenham (1823 or 1824–1879) **VII**
Registrar, Royal School of Mines.
1 letter: London, 15 Dec. 1877.

Reeve, Lovell Augustus (1814–1865) **VII**
Conchologist.
1 letter: Hounslow, 30 Nov. 1864, to Mssrs Fitch and Chambers.

Richardson, George Fleming (c. 1796–1848) **VII**
Geologist and miscellaneous writer. Assistant, Department of Mineralogy, British Museum, 1838–48.
1 letter: London, 28 July [1842?], to u.r.

Richmond, Sir William Blake (1842–1921) **VII**
Artist. Slade Professor of Fine Arts, Oxford.
1 letter: Hammersmith, 15 Nov. 1876.

ROBERTS-AUSTEN, Sir William Chandler (1843–1902) **VII**
Metallurgist. Professor of metallurgy, Royal College of Mines.
1 letter: London, [15 Nov. 1890?].
1 autograph.
2 portraits (1 photo).

ROBINSON, George Frederick Samuel (First Marquess of Ripon) (1827–1909) **VII**
Statesman. Governor-general of India.
2 letters: Ripon, [13?] Oct. 1887; Ripon, 17 Oct. 1887.

ROEMER, Ferdinand (1818–1891) **VII**
Geologist and palaeontologist. Professor of geology and palaeontology, University of Breslau.
3 letters: Breslau, 11 March 1884; Breslau, 24 Feb. 1885; Breslau, 30 June 1886.
1 autograph.
1 portrait (photo).

ROFE, John (1801–1878) **VII**
Engineer and government adviser.
2 letters: Lancaster, 24 Dec. 1872; Leamington, 7 Feb. 1878.
1 portrait (photo).

ROSCOE, Sir Henry Enfield (1833–1915) **VII**
Chemist. Professor of chemistry, Owen's College, Manchester.
2 letters: S. Kensington, 17 May 1897, to Miss H. B. Potter; Leatherhead, 19 April 1903, to Miss H. B. Potter.
1 portrait.

ROSE, Caleb Burrell (1790–1872) **VII**
Geologist.
1 letter: Swaffham, 1 Feb. 1837, to Miss Johnson.
1 autograph.
1 portrait.

ROTHSCHILD, Baron Lionel Walter (1868–1937) **VII**
Naturalist and banker. Trustee, British Museum.
2 letters: Tring, n.d.; Tring, 2 Aug. 1893.
1 portrait.

RUDLER, Frederick William (1840–1915) **VII**
Curator and librarian, Museum of Practical Geology.
2 letters: London, 23 Oct. 1888; London, 26 May 1892.
1 portrait.

RUECKER, Sir Arthur William (1848–1915) **VII**
Physicist. Professor of physics, Royal College of Science, South Kensington.
2 letters: London, 21 Feb. 1905, to Watson; London, 25 Feb. [1905], to Watson.

RUETIMEYER, Karl Ludwig (1825–1895) **VII**
Professor of zoology and comparative anatomy, University of Basle.
1 letter: Basle, 2 May 1877.
1 portrait (photo).

RUSKIN, John (1819–1900) **VII**
Author, artist and social reformer.
1 letter: London, n.d., to Miss W. W.
1 autograph.
2 biographical notices, 1 with portraits.
2 portraits (1 photo).

RUSSELL, Herbrand Arthur. See BEDFORD.

RUTLEY, Frank (1842–1904) **VII**
Geologist and petrographer. Lecturer on mineralogy, Royal College of Science, South Kensington.
1 letter: West Kensington, 28 Feb. 1893.

Sabine, Sir Edward (1788–1883) **VII**
Artillery officer and geophysicist.
1 letter: London, 20 Nov. 1871.

Salter, John William (1820–1869) **VII**
Geologist. Palaeontologist to Geological Survey of Great Britain.
1 letter: London, n.d.
1 autograph.
2 portraits (1 photo).

Scharff, Robert Francis (1858–1934) **VII**
Keeper, Natural History Collections, National Museum, Dublin.
1 letter: Dublin, 9 Nov. 1890.

Sclater, Philip Lutley (1829–1913) **VII**
Ornithologist. Secretary, Zoological Society of London.
1 letter: London, 24 June 1886.

Scott, Edward John Long (1840–1918) **VII**
Keeper of Manuscripts and Egerton Librarian, British Museum.
1 letter: London, 23 June 1893, to E.W.

Scrope, George Julius Poulett (1797–1876) **VII**
Geologist and political economist.
4 letters: Cobham, 22 March 1869; Cobham, 20 Nov. 1871; Cobham, 16 Dec. 1871; Cobham, 16 Oct. 1874.
2 portraits, 1 autographed.

Scudder, Samuel Hubbard (1837–1911) **VII**
Entomologist. Palaeontologist to U.S. Geological Survey. Earlier, assistant librarian, Harvard University.
3 letters: Cambridge, Mass., 13 May 1876; Cambridge, Mass., 30 Oct. 1877; Cambridge, Mass., 12 Jan. 1890.
1 portrait.

Sedgwick, Adam (1785–1873) **VII**
Geologist. Woodwardian Professor of Geology, Cambridge.
2 letters: Cambridge, 3 Jan. 1830 to [Samuel] Woodward; Cambridge, 8 June 1866.
4 portraits (2 photos).

Seeley, Henry Govier (1839–1909) **VII**
Geologist and palaeontologist. Professor of geology and mineralogy, King's College, London.
2 letters: London, 5 Sept. 1877; London, 19 April 1891.
1 portrait (photo).

Selous, Frederick Courteney (1851–1917) **VII**
Hunter and explorer.
1 letter: London, n.d. (189–), to Miss W.
1 portrait.

Sharp, Samuel (1814–1882) **VII**
Geologist and antiquary.
1 letter: Wellingborough, 1 Nov. 1876.

Sharpe, Daniel (1806–1856) **VII**
Geologist.
1 autograph.
1 portrait.

Shedden-ralston, William Ralston (1828–1889) **VII**
Russian scholar. Assistant, Printed Books Department, British Museum.
1 letter: London, n.d. (19 March), to E.W.

Silliman, Benjamin (1779–1864) **VII**
Professor of chemistry and natural history, Yale University.
1 letter: New Haven (Connecticut), 27 May 1839, to Edward Charlesworth.

Smallfield, Frederick (1865–1911) **XI**
Watercolour painter.
1 letter: London, 1 Aug. 1896, to Hugh Owen.

SMEE, Alfred (1818–1877) **VIII**
Surgeon.
1 letter: London, 11 Aug. 1841, to Thomas [Eatter?].

SMITH, Sir Andrew (1797–1872) **VIII**
Surgeon and naturalist. Director-general, army medical department.
1 letter: n.p., n.d. [10 Sept. 1838?], to Edward Charlesworth.

SMITH, William (1769–1839) **VII**
Geologist and civil engineer.
1 portrait.
2 printed notices about monument erected to him.
Sketch and photograph of monument.

SOLLAS, William Johnson (1849–1936) **VII**
Geologist, palaeontologist and anthropologist. Professor of geology, Oxford.
1 letter: Clifton (Bristol), 3 Dec. 1883.

SORBY, Henry Clifton (1826–1908) **VIII**
Geologist.
1 letter: Sheffield, 6 March 1891.

SOWERBY, George Brettingham, Sr (1788–1854) **VII**
Conchologist and artist.
1 autograph.

SOWERBY, George Brettingham, Jr (1812–1884) **VII**
Artist and naturalist.
1 letter: Camden Town, n.d., to u.r.

SOWERBY, James de Carle (1787–1871) **VII**
Naturalist and artist.
1 letter: Camden Town, 19 March 1839, to Edward Charlesworth.

SPARKES, John Charles Lewis (1833–1907) **VII**
Artist. Staff, Science and Art Department, South Kensington.
2 letters: S. Kensington, 29 Jan. 1883; S. Kensington, 27 Nov. 1884.
1 autograph.
1 portrait.

STANHOPE, Philip Henry, Fifth Earl of Stanhope (1805–1875) **VII**
Historian.
1 letter: London, 13 July 1868.

STEBBING, Thomas Roscoe Rede (1835–1926) **VII**
Zoologist and clergyman.
1 letter: Tunbridge Wells, 7 Feb. 1889.
1 portrait (photo).

STEPHENSON, Robert (1803–1859) **VII**
Civil engineer.
1 autograph.

STEWART, Charles (1840–1907) **VII**
Comparative anatomist. Curator, Hunterian Museum, and Hunterian Professor of Comparative Anatomy, Royal College of Surgeons.
1 letter: London, 14 Nov. 1884.

STORY-MASKELYNE. See MASKELYNE.

STRANGWAYS, Charles Edward Fox- (1844–1910) **VII**
Geologist. District Geologist, Geological Survey of England and Wales.
1 letter: Leicester, 5 Jan. 1893.

STRUTT, J. W. See RAYLEIGH.

SUESS, Edward (1831–1914) **VII**
Geologist. Professor of geology, University of Vienna.

2 letters: Vienna, 8 Feb. 1896; Vienna, 2 June 1896 (both in German).
1 portrait (photo).

Tawney, Edward Bernard (1841–1882) **VIII**
Geologist. Assistant curator, Woodwardian Museum, Cambridge.
1 letter: [Cambridge], n.d.

Taylor, Tom (1817–1880) **VIII**
Dramatist and editor of *Punch*.
1 letter: London, 24 March 1868.

Teall, Sir Jethro Justinian Harris (1849–1924) **VIII**
Geologist. Director, Geological Survey of Great Britain 1901–11.
3 letters: Kew, 27 Jan. 1885; Kew, 17 Oct. 1886; London, 5 Oct. 1889.
1 portrait (photo).

Tennant, James (1808–1881) **VIII**
Mineralogist. First professor of mineralogy, King's College, London.
1 letter: London, 29 Feb. 1864.

Thiselton-dyer. See **Dyer**.

Thompson, Sir Edward Maunde (1840–1929) **VIII**
Palaeographer. Director, British Museum.
2 letters: London, 16 July 1888; London, 25 May 1895.

Thomson, William. See **Kelvin**.

Topley, William (1841–1894) **VIII**
Geologist. Staff, Geological Survey of England and Wales.
2 letters: London, 27 June 1887; London, 6 Oct. 1892.
1 portrait.

Traquair, Ramsay Heatley (1840–1912) **VIII**
Zoologist. Keeper, Natural History Collections, Royal Scottish Museum, Edinburgh.
1 biographical notice.

Trimen, Henry (1843–1896) **VIII**
Botanist. Director, botanical gardens at Peradeniya, Ceylon.
1 letter: London, 11 Aug. 1889.

Tupper, Sir Charles (1821–1915) **VIII**
Canadian statesman.
1 letter: London, 5 Dec. 1895.

Turner, Dawson (1775–1858) **VIII**
Botanist and antiquary.
3 letters: n.p., 28 Nov. [1828?], to u.r.; Yarmouth (Norfolk), 26 Feb. 1847, to u.r.; Yarmouth (Norfolk), 15 [Nov?] 1847, to u.r.

Tyler, Charles (1826–1895) **VIII**
Palaeontologist.
1 letter: London, 24 May 1883.

Tylor, Alfred (1824–1884) **VIII**
Geologist.
1 letter: Carshalton, 29 March 1884, to Miss W.
1 portrait (photo).

Tylor, Sir Edward Burnett (1832–1917) **VIII**
Anthropologist. Professor of Anthropology, Oxford.
2 letters: Oxford, 15 May 1897; Oxford, 21 May 1897.

Vaux, William Sandys Wright (1818–1885) **VIII**
Antiquary. Keeper, Department of Coins and Medals, British Museum.
1 letter: London, 6 Sept. 1883.

VOYSEY, Charles (1828–1912) **VIII**
Clergyman.
1 letter: Hampstead, 22 Feb. 1893.

WALCOTT, Charles Doolittle (1850–1927) **VIII**
Palaeontologist. Director, U.S. Geological Survey.
1 letter: Waldron, Indiana, 28 Oct. 1877.

WALLACE, Alfred Russel (1823–1913) **VIII**
Naturalist.
1 letter: n.p., n.d.

WALSH, William. See DOVER.

WALSINGHAM, Thomas de Grey, Sixth Baron (1843–1919) **VIII**
Entomologist. Trustee, British Museum.
3 letters: Thetford, 18 Jan. 1885; Thetford, 6 Jan. 1886; Thetford, 20 Jan. 1886.
1 portrait.

WATERFORD, Louisa, Marchioness of (1818–1891) **XI**
Artist.
1 letter: Highcliffe, n.d. (1889), to Capt. Ogle.

WATERHOUSE, George Robert (1810–1888) **VIII**
Naturalist. Keeper, Department of Mineralogy and Geology, British Museum.
4 letters: n.p., 28 May 1840, to Edward Charlesworth; London, 29 July 1859; n.p., 15 June 1875; London, 28 May 1877.

WEIR, Harrison William (1824–1906) **VIII**
Animal painter and author.
1 portrait (photo).

WESTWOOD, John Obadiah (1805–1893) **VIII**
Entomologist and palaeographer. First Hope Professor of Zoology, Oxford.
1 letter: [Hammersmith], 22 Nov. 1839, to u.r.

WETHERELL, Nathaniel Thomas (1800–1875) **VIII**
Geologist.
3 letters: Highgate, 3 May 1843, to John Purdue, Jr; Highgate, 3 Feb. 1861, to S. P. Woodward; Highgate, 23 Jan. 1874.

WHARNCLIFFE, First Earl of (Edward Montagu Stuart Granville Montagu-Stuart-Wortley-Mackenzie) (1827–1899) **VIII**
Chairman, Manchester, Sheffield & Lincoln Railroad.
3 letters: Sheffield, 30 Aug. 1890; London, 6 July 1892; London, 21 July 1892.

WHARTON, Sir William James Lloyd (1843–1905) **VIII**
Rear-admiral and hydrographer of the navy.
2 letters: Wimbledon Park, 10 Feb. 1899; Wimbledon Park, 18 Feb. 1899.

WHITAKER, William (1836–1925) **VIII**
Consulting geologist. Staff, Geological Survey.
1 letter: Rhayader, 18 Aug. 1899, to E.W.
1 portrait (photo).

WHITE, Joseph Gleeson (1851–1898) **XI**
Art editor.
1 letter: London, n.d. (4 Aug.), to Miss W.

WHITEAVES, Joseph Frederick (1835–1909) **VIII**
Palaeontologist, Geological Survey of Canada.
1 letter: Montreal, 22 Sept. 1876.

WHITMORE, Charles Algernon (1851–1908) **VIII**
Barrister and Member of Parliament.
1 letter: London, 27 Feb. 1888, to Miss W.

Whymper, Edward (1840–1911) **VIII**
Wood-engraver and mountain climber.
2 letters: London, 5 Feb. 1879; London, 7 Nov. 1885.

Wilkinson, Charles Smith (1843–1891) **VIII**
Geologist. Government geologist for New South Wales.
1 letter: Sydney, 26 Nov. 1884, to Richard Owen.

Williamson, William Crawford (1816–1895) **VIII**
Naturalist. First professor of natural history, anatomy, and physiology, Owen's College, Manchester.
1 letter: Fallowfield, 13 Jan. 1892.
1 portrait.

Wiltshire, Thomas (1826–1903) **VIII**
Professor of geology and mineralogy, King's College, London.
2 letters: Lewisham, 12 Nov. 1877; Lewisham, 9 April 1886.

Winkler, Tiberius Cornelius (died 1898) **VIII**
Palaeontologist. Director, Teyler's Museum, Haarlem.
1 letter: Haarlem, 6 June 1889.

Wolf, Joseph (1820–1899) **VIII**
Animal painter and lithographer.
1 letter: London, 22 May 1868, to James Reeve.

Wollaston, Thomas Vernon (1822–1878) **VIII**
Entomologist and conchologist.
2 letters: London, n.d., to G. R. Waterhouse; Stamford, 17 July 1846, to u.r.

Wood, Searles Valentine, Sr (1798–1880) **VIII**
Palaeontologist and geologist.
5 letters: Brentwood, 23 July 1872; Martlesham (nr Woodbridge), 15 May 1876; Martlesham, 29 Aug. 1877; Martlesham, 27 June 1879; n.p., n.d. (30 Sept.), to Edward Charlesworth.
1 group photograph of first members of Palaeontographical Society.

Wood, Searles Valentine, Jr (1830–1884) **VIII**
Geologist.
4 letters: Martlesham (nr Woodbridge), 28 July 1877; Martlesham, 31 July 1877; Martlesham, 15 Oct. 1883; Martlesham, Dec. 1883.

Woodward, Sir Arthur Smith (1864–1944) **XI**
Palaeontologist. Keeper of Geology, British Museum (Natural History).
2 letters: Chelsea, 3 June 1887; Munich, 10 May 1891.

Woodward, Bernard Bolingbroke (1816–1869) **XI**
Librarian to the Queen at Windsor Castle.
2 letters: Yarmouth (Norfolk), 28 April 1836, to Thomas; London, 22 Dec. 1849, to T. S. Rayfield.
2 portraits (photos).
1 of his sketches.

Woodward, Henry Page (1858–1917) **XI**
Mining engineer and government geologist, Western Australia.
1 letter: Perth, W.A., 5 Dec. 1897, to E.W.
1 biographical notice with portrait.
2 portraits (1 photo).

Woodward, Henry (1832–1921) **XI**
Keeper of Geology, British Museum (Natural History).
1 letter: Edinburgh, 1 July 1864, to E.W.
1 autograph.
1 biographical notice.
3 portraits (2 photos).

Woodward, Henry Willoughby (1854–1932) **XI**
Archdeacon of Magila, in German East Africa.
3 letters: London, 30 March 1894, to Kate; London, 17 April 1894, to E.W.; London, 28 April 1894, to E.W.
1 portrait (photo).

WOODWARD, Horace Bolingbroke (1848–1914) **XI**
Geologist. Assistant director, Geological Survey of England and Wales.
5 letters: London, 30 Oct. 1888; London, 22 Nov. 1891; London, 10 Dec. 1891; London, 9 Feb. 1892; London, 12 Sept. 1905, to E.W.
2 portraits (photos).

WOODWARD, Martin Fountain (1865–1901) **XI**
Zoologist. Demonstrator in Biology, Royal College of Science, South Kensington.
1 letter: Plymouth, 12 Sept. 1898, to E.W.
1 obituary.
1 portrait (photo).

WOODWARD, Samuel (1790–1838) **XI**
Antiquary and geologist.
3 letters: n.p., n.d., to u.r.; n.p., n.d., to Charles Koenig; London, 4 June 1832, to his wife.
1 autograph.
1 biographical notice.
1 portrait.

WOODWARD, Samuel Pickworth (1821–1865) **XI**
Naturalist. Assistant, Department of Geology and Mineralogy, British Museum.
6 letters: Islington, Nov. 1838, to u.r.; n.p., [16 April 1840], to u.r.; n.p., 16 May [1840], to W.H. Ince; Islington, 2 Nov. 1841, to W.H. Ince; London, 8 Sept. 1857, to [illeg.] Owen; [London?] 18 March 1861, to B. B. Woodward.
1 portrait (photo).
1 of his sketches.

WRIGHT, Edward Perceval (1834–1910) **VIII**
Naturalist. Professor of botany and keeper of the herbarium, Trinity College, Dublin.
2 letters: Dublin, 11 April 1883; Dublin, 16 Nov. 1887.

WRIGHT, Thomas (1809–1884) **XI**
Physician and geologist.
2 letters: Cheltenham, 4 Feb. 1872; Cheltenham, 12 Feb. 1876.
1 portrait (photo).

YOUNG, Sir Allen William (1827–1915) **XI**
Sailor and polar explorer.
3 letters: London, 8 June [1875]; London, 13 June [1875]; London, 21 June [1875?].

ZITTEL, Karl Alfred Ritter von (1839–1904) **XI**
Palaeontologist and geologist. Professor of palaeontology, Munich University.
3 letters: Munich, 18 Dec. 1878, (German); Munich, 10 Jan. 1885; Munich, 3 Dec. 1896, (German).
1 portrait (photo).

The Journal of Peter Good

Gardener on Matthew Flinders Voyage to Terra Australis 1801-03

Edited with an introduction by Phyllis I. Edwards

July 1981. 213 pp. Illustrated
Bulletin of the British Museum (*Natural History*)
Historical Series Vol. 9
Paper covers, £24.00

The Peter Good *Journal* came into the possession of the British Museum with the manuscripts of Robert Brown (1773–1858), first Keeper of the Department of Botany (initially named the Banksian Department). It was transferred, in 1881, to the newly established British Museum (Natural History) at South Kensington. Associated with the *Journal* are copies of the seed lists Good sent to Sir Joseph Banks (1743–1820) and a slightly different version of part of his *Journal.* Although the Good *Journal* is mentioned by J. Britten and G. S. Boulger in their *A biographical index of deceased British and Irish botanists* (2nd ed., 1931), I have found no other reference to it. From reading only a few pages of the Good *Journal* it is evident that it is of both scientific and historical importance and a valuable supplement to Matthew Flinders own published account *A Voyage to Terra Australis*, 1814.

(Phyllis Edwards: Foreword to *The Journal of Peter Good*)

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CATALOGUE
OF THE
NATURAL HISTORY DRAWINGS
COMMISSIONED BY
JOSEPH BANKS
ON THE
ENDEAVOUR VOYAGE 1768–1771

HELD IN THE BRITISH MUSEUM (NATURAL HISTORY)

PART 1: BOTANY: AUSTRALIA

Judith A. Diment
Christopher J. Humphries
Linda Newington
British Museum (Natural History)

Elaine Shaughnessy
Editions Alecto Limited

Bulletin of the British Museum (Natural History)
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INTRODUCTION

The natural history collections of drawings, manuscripts and specimens made by Joseph Banks (1743–1820) and Daniel Solander (1733–1782) on James Cook's voyage around the world on the *Endeavour* (1768–1771) once formed part of the extensive Banksian Library and Collections. The Library and that part of the Collections that he had not already disposed of were bequeathed by Banks to his curator/librarian Robert Brown, who in 1827 transferred them to the Trustees of the British Museum.

In 1881 the natural history collections were transferred from the British Museum in Bloomsbury to a new building in South Kensington, the British Museum (Natural History). Today, Banks' plant collections are held in the Department of Botany, much of his animal collections are retained in the Departments of Zoology and Entomology, while the related drawings and manuscripts are held in the Botany and Zoology Libraries of the Department of Library Services.

The aim of this catalogue is to relate the drawings and manuscripts to the plant and animal specimens. It includes all the watercolour drawings but lists only those specimens that are illustrated.

The catalogue will be published in three parts:

Part 1 Botanical Collections: Australia.
Part 2 Botanical Collections: Madeira, Brazil, Tierra del Fuego, Society Islands, New Zealand, Java. Summary of the Botanical Collections.
Part 3 Zoological Collections.

THE VOYAGE OF HMS *ENDEAVOUR* 1768–1771

The *Endeavour*, commanded by James Cook, left England on 25 August 1768 with 94 people on board. The voyage, lasting 1051 days, circumnavigated the world with landings at Madeira, Rio de Janeiro, Tierra del Fuego, Society Islands, New Zealand, Australia, Java, Cape of Good Hope and Saint Helena returning to England on 12 July 1771. A detailed itinerary of the landings including the length of stay and sailing dates of the *Endeavour* is given in Groves (1962). The team employed by Joseph Banks for the *Endeavour* voyage comprised Daniel Carlsson Solander (1733–1782), a distinguished Swedish naturalist and pupil of Linnaeus; the natural history and landscape artists, Sydney Parkinson (?1745–1771) and Alexander Buchan (d. 1769); Herman Diedrich Spöring (?1733–1771) as secretary and artist; and four servants and field assistants, Peter Briscoe (1737–1810), James Roberts (?1752–1826), George Dorlton (d. 1769), and Thomas Richmond (d. 1769). Early in the voyage, in January 1769, Banks suffered the loss of his two negro servants George Dorlton and Thomas Richmond who died of exposure on Mount Banks in Tierra del Fuego. A few months later, on 17 April 1769, Alexander Buchan died in Tahiti from epilepsy. During the voyage home Herman Spöring died at sea on 24 January 1771, followed two days later by Sydney Parkinson. Both had contracted fever and dysentery at Batavia (Java).

The voyage is vividly recorded in the detailed journals kept by James Cook and Joseph Banks, the less complete account by Sydney Parkinson, and the fragments by William

Monkhouse and Robert Molyneux. The journals of Cook and Banks, perhaps rather more of the latter, were used by Hawkesworth for the official account of the voyage published in June 1773. This was followed in July 1773 by Stanfield Parkinson's disputed publication of his dead brother's *Journal* including some of the material and illustrations used by Hawkesworth who omitted any mention of the artist. A second edition of Parkinson's *Journal* appeared in 1784 with additional plates and text and an important explanatory preface originally written in 1773 by Dr John Fothergill[1].

An incomplete edition of Banks' *Journal* was published by J.D. Hooker (1896) based on the manuscript copy held in the British Museum (Natural History). Although Agnes Arber (1945) was doubtful about its usefulness it was nevertheless a major source of information about the natural history of the voyage until the full publication of Banks' *Journal* by Beaglehole (1962).

Cook's *Journal* also has been made available in its entirety by the scholarly editing of John C. Beaglehole (1955). His erudite introductions to both these works provide an excellent account of the history of the voyage particularly in relation to its scientific achievements. The works of Beaglehole are now complemented by the publication of facsimile journals of both Cook (1977) and Banks (1980); both have important scholarly introductions[2].

The life of Cook is also well documented in Carrington (1939), Williamson (1946), Lloyd (1949), Villiers (1967) and Rienits & Rienits (1968). The bibliography of Cook by Beddie (Mitchell Library, 1970) is an invaluable source. For Banks there are the works of Maiden (1909), E. Smith (1911) and Cameron (1952); and for Solander the works by Fries (1940), Uggla (1955), Selling (1962), Rauschenberg (1964, 1968) and Marshall (1977). Less is known of Banks' artists except in the works by Lysaght[2]. They are also discussed by Blunt (1950), Rienits & Rienits (1963), Blunt & Stearn (1973), B. Smith (1979) and Joppien (1978). Sydney Parkinson is the subject of studies by W.F. Miller (1911), Wilson (1961) and Carr (1983); and the work of Spöring is discussed by Perret (1949, 1968). Other important additional references are noted[3].

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[1] The copy of the first edition of Parkinson's *Journal* (1773) held in the British Museum (Natural History) Library includes after page xxiii a photocopy from a copy of the *Journal* (1773) at the British Library of four pages that were apparently printed for incorporation in this edition of Parkinson's *Journal* (Holmes 1952). Bound in between the photocopy and page 1 is a short account entitled, ***Explanatory remarks on the Preface to Sydney Parkinson's Journal*** by John Fothergill which was first published in the second edition in 1784. The entry in the ***Catalogue of the Library of the British Museum (Natural History)*** (1940) for this work implies incorrectly that this is part of the first edition. It is unquestionably the 1784 edition as on page 2 the death of Stanfield Parkinson in 1784 is recorded in a footnote.

[2] The introduction to the facsimile of Cook's *Journal* (1977) includes several important contributions, including those of the late Averil M. Lysaght who wrote chapters on 'Joseph Banks in the *Niger* and the *Endeavour*', and 'Banks's artists on the *Endeavour*'. In addition there is an account of Daniel Solander by J.B. Marshall. Dr Lysaght also wrote the introduction to the facsimile of Banks' *Journal* (1980) which included an interesting essay 'Banksian reflections' as well as a detailed 'Catalogue of drawings by Alexander Buchan, Herman Diedrich Spöring and Sydney Parkinson . . .' held in the British Library. This Catalogue is a revised version of an earlier work published by Lysaght (1979).

[3] Other important additional references noted in the references include, for the life of Cook: Mitchell Library (1928), Begg & Begg (1969), National Library of Australia (1970), Cook (1970), Greenhill (1970), Hoare (1978), Holmes (1936 & 1952), Wharton (1893); for the life of Banks: Duncan (1821), Lysaght (1971), Mackaness (1936), Miller (1973). General references on the voyage include Kaeppler (1978), Lee (1925), Lemmon (1968); specific references on the botany of the voyage include Barber (1970), Hiern (1901), Kirk (1895), MacGillivray (1970), Maiden (1905), Merrill (1954), Morris (1900), Salkin (1981), H.M. Smith (1974), Stearn (1974 & 1978), and on the zoology of the voyage include Iredale & Troughton (1925), Lysaght (1957 & 1959), Sharman (1970), Whitehead (1969). References on the artists include Lysaght (1977), Morrison Scott & Sawyer (1950), Sawyer (1950), Smith (1960).

The natural history collections made on the voyage by Banks and Solander have been detailed by Carter *et al* (1981) and may be summarised as follows. For the animal kingdom as a whole more than 1000 species may have been collected comprising mammals (5), birds (107+), fishes (248+) arthropods (370+) molluscs (206+) echinoderms (6), salps (9), medusae (30) and some few others. For the plant kingdom it is estimated that some 30,000 individual specimens were collected. The natural history drawings made by Sydney Parkinson on the *Endeavour* voyage comprise twenty-one volumes. The animal drawings are bound in three volumes (which also contain a few drawings by Spöring and Buchan) and the botanical drawings in eighteen volumes. Complementing the specimens and drawings is a very large collection of manuscripts by Banks, Solander and Spöring, written on the voyage, describing each species in detail. A study of these manuscripts has been made by Marshall (1978) and a catalogue of the Solander manuscripts held in the British Museum (Natural History) has been compiled by Diment and Wheeler (in press).

BOTANICAL DRAWINGS

The eighteen volumes of botanical drawings are arranged geographically as follows: Madeira (1 volume), Brazil (1 volume), Tierra del Fuego (1 volume), Society Islands (2 volumes)[4], New Zealand (4 volumes), Australia (8 volumes) and Java (1 volume). Within this geographical scheme the drawings were rearranged after 1905 in the Bentham and Hooker system of classification which is used in the General Herbarium of the Department of Botany. The herbarium has examples of most of the plant specimens collected on the *Endeavour* and a few fern specimens are housed in the Cryptogamic Herbarium.

Sydney Parkinson's plant drawings form one of the most important scientific, historical and artistic products of the voyage. Parkinson was the sole botanical artist on board ship. He made drawings from living specimens collected by Banks and Solander which they selected for illustration on the grounds that they were new or noteworthy. He was closely supervised by Banks and the method employed is outlined by Banks in a letter to Alströmer (Rauschenberg, 1964): 'We sat till dark at the great table with the draughtsman opposite and showed him in what way to make his drawings, ourselves made rapid descriptions of all the details . . .while the specimen was fresh.'.

When fresh specimens had wilted and faded before a coloured drawing was completed Parkinson made an outline of the form in pencil, colouring in some detail for finishing later and adding written colour notes, normally on the reverse side of the drawing. In Madeira, Brazil and Tierra del Fuego he finished most drawings but in the Society Islands, New Zealand, Australia and Java he was overwhelmed by the great number of new and remarkable plants. For most of these plants he was able to make only outline drawings. In a few cases there are both outline and finished drawings of the same species by Parkinson, for example the bread fruit from the Society Islands.

The drawings in pencil, ink and watercolours are vital and elegant in design. Many are signed and dated, with the locality written in ink on the verso by Banks.

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[4] Britten (1905), in his introduction, erroneously called the Society Islands 'Friendly Islands' and this error, which has misled some research workers, was perpetuated on the title page and spine of the binding of the two Society Island volumes.

PLANT SPECIMENS

The extensive collections of plants made by Banks and Solander comprise 30,382 specimens including more than 3600 described species (Carter *et al*, 1981). Of these it is estimated that 1400 species were then new to science. The Banksian set is distributed throughout the herbarium in the Botany Department of the British Museum (Natural History). A large number of duplicates have been distributed to at least fourteen other institutions. In the 1890s the National Museum, Wellington, New Zealand, received 328 specimens and the Auckland Institute and Museum received 249 species (Adams 1981 personal communication). In 1905, 586 species of Australian plants were sent to the Royal Botanic Gardens, Sydney and were listed by Maiden (1906). Other institutes receiving duplicates include Royal Botanic Garden, Edinburgh; Botanischer Garten und Botanisches Museum, Berlin-Dahlem; Martin-Luther-Universität und Botanischer Garten, Halle; Dansk Botanisk Forening, Copenhagen; Muséum National d'Histoire Naturelle, Paris; Naturhistoriska Riksmuseum, Stockholm; Naturhistorisches Museum, Vienna; Smithsonian Institution, Washington DC: Missouri Botanical Garden, St Louis; New York Botanical Garden; and Central National Herbarium at Howrah, Calcutta.

MANUSCRIPTS

The collection of botanical manuscripts resulting from the voyage is extensive and varied. During the voyage Solander made rapid descriptions of the plants collected according to the Linnaean system. The titles of this first group of manuscripts are as follows: [*Plantae Terra del Fuego*] (January 1769), *Plantae Otaheitenses* (April to July 1769), [*Plantae Insularum Oceani Pacifici*] (July to August 1769), *Plantae Australiae* [New Zealand] (October 1769 to March 1770), *Plantae Novae Hollandiae* [Australia], (April to August 1770), *Plantae Javanenses* (October 1770 to January 1771), *Plantae Capenses* (March to April 1771), *Plantae Insulae St$^{ae.}$ Helenae* (May 1771). These catalogues usually included indices and lists of the contents of the numbered bundles of dried specimens as they were taken back to England. There are no equivalent manuscripts for the plants collected at Madeira or Brazil although a numbered bundle of plants collected in Madeira is extant.

The second group of manuscripts compiled on the voyage comprises fair copies of Solander's descriptions made by an amanuensis, Herman Diedrich Spöring, and includes the following floras: *Primitiae Florae Maderensis*; *Primitiae Florae Brasiliensis*; *Primitiae Florae Terra del Fuego*; *Primitiae Florae Insularum Oceani Pacifici*. The *Primitiae Florae Novae Zelandiae* is considered by Marshall (1978) to be in the hand of Sigismund Bacstrom, another amanuensis, and was therefore made after the return of the *Endeavour* (for discussion see Diment & Wheeler, (in press)). The species were all classified according to the Linnaean system and it is these manuscripts that some authors have referred to as being 'ready for the printers'. For example, in 1772 the Reverend William Sheffield, Keeper of the Ashmolean Museum, Oxford, wrote to the Reverend Gilbert White '. . . and what is more extraordinary still, all the new genera and species contained in the vast collections described, and the descriptions fairly transcribed and fit to be put to the press.' (Holt-White, 1901).

The Australian plants, which formed the most important portion of the collection were never treated in this way. A transcript of the manuscript *Plantae Novae Hollandiae* was made by two unknown amanuenses referred to by Marshall (1978) as A and B. Britten

(1905) pointed out that there are many errors in this transcript, and considered that it was not finally prepared for publication as the arrangement is not systematic and only the plants considered as new are included. Also there are no flora accounts for the plants collected at Java, the Cape or Saint Helena. Britten (1905) was in error when he claimed that the manuscript entitled *Commencement of a systematic enumeration of the plants collected on Captain Cook's first voyage by Dr Solander* was concerned solely with Java, for as Marshall (1978) pointed out this manuscript includes plants from many collecting localities other than Java. This manuscript contains transcriptions of Solander's descriptions of plants from all localities that come within Classis I of the Linnaean system (Monandria: Monogyna). Some of the transcriptions for Linnaean Classis II (Diandria: Monogyna) have been completed and it would seem that a complete enumeration was envisaged for all the plants collected on the voyage. There is a transcript of *Plantae Javanenses* in the hand of Amanuensis B but like its counterpart for Australia this was not ready for publication.

During the *Endeavour* voyage Solander made entries for his Manuscript Slip Catalogue. These were descriptions of plants, written on slips of paper, systematically arranged in the Linnaean system. These slips were kept in small Solander cases. According to Marshall (1978) Solander made these slips from the manuscript descriptions in [*Plantae Terra del Fuego*], *Plantae Australiae* [New Zealand], *Plantae Otaheitenses* and [*Plantae Insularum Oceani Pacifici*]. A vertical line of red ink has been drawn through those entries in these manuscripts that Solander copied onto slips. There are also entries for plants collected in Brazil, Madeira and a few slips for plants collected in Australia, Java and South Africa. Many slips have the abbreviation 'Fig Pict' referring to drawings made by Parkinson.

In addition to the Solander manuscripts there is a Banks manuscript entitled *Catalogue of the plants collected by Banks and Solander at Madeira, Brazil, Tierra del Fuego and the Society Islands*. The plants are arranged systematically for each locality in the order of *Species Plantarum* (Linnaeus, 1762). Also given is the bundle number in which each specimen was placed and the number of specimens collected. It probably represents an intermediate stage between the first and second groups of manuscripts.

PLANS FOR PUBLICATION

I – NEW BURLINGTON STREET PHASE 1771–1777

After his return to England Banks set about preparing the results of the voyage for publication. The general intention to publish the natural history of the voyage seems to have been known by 19 November 1771 (Llanover, 1861). Banks is said to have reserved £10,000 for publication and he planned a folio work in fourteen volumes, separate from the account of the voyage by Hawkesworth (1773).

Serious work on the botanical drawings and engravings for publication probably started at Banks' New Burlington Street home following his withdrawal from Cook's second voyage and his return from journeys to Iceland and Holland.

From the winter of 1773 the artists John Frederick Miller (fl. 1770s–1790s) and his brother James Miller (fl. 1773–1791) together with John Cleveley (1747–1786) made 210 finished drawings. Thomas Burgis (fl. 1760s–1790s) completed a further three. The finished drawings were based on Parkinson's outline drawings and the artists closely followed his style, using for reference his notes on colour together with the herbarium specimens. Thus by the summer of 1777, with those already completed by Parkinson on the voyage, at least 483 finished coloured drawings were ready for engraving.

Concurrently with the artists' work Sigismund Bacstrom compiled a master catalogue of the plant drawings indicating those species selected for completed drawings and engravings. It includes the manuscript plant name, the collection locality (e.g. Otaheite), artists' and engravers' names, usually in ink for a completed plate, but otherwise in pencil. Symbols were included to show the finished or unfinished status of the drawings and engravings. The catalogue is arranged by the Linnaean system and there are insertions and corrections by Solander and Jonas Dryander. Altogether 753 drawings were allotted for engraving.

The selection of suitable engravers posed considerable difficulties for Banks, as the best botanical engravers of the day, John Sebastian Miller (1715–*c.*1790), William Kilburn (1745–1818), Francis Sansom (fl. 1780s–1810), and James Sowerby (1757–1822), were already engaged on two extensive projects: *Illustratis systematis sexualis Linnaei* (1777) by John Sebastian Miller and *Flora Londinensis* (1777–1798) by William Curtis (Henrey, 1975). As Banks was in close touch with these men he was able to observe their working standards and judge what would be needed to bring his own project to fruition. He was also able to observe at first hand the processes and problems inherent in applying colour to the prints from copper engravings, an embellishment so carefully prepared for in the colour notes of Parkinson but which Banks in his lifetime never applied to his own engravings.

However, it is against these two contemporary works of Miller and Curtis that the unpublished plates of the *Endeavour* florilegium of Banks are probably best judged both as pictorial art and as effective botanical illustration.

Banks had little choice but to cast his net wide in the search for suitable engravers. As early as July 1773 he had received trial proofs of engravings from Kaltenhofer of the Akademie der Wissenschaften-Berlin, prepared from specimen drawings sent to him by Banks soon after his return from Holland[5]. Whatever the quality of the work received Kaltenhofer's prices were too high. However, during his visit to Holland Banks had visited Pierre Lyonnet in February 1773. There he formed a high opinion of the engravings of one of Lyonnet's engravers, Gerald Sibelius (d.1785). Just when Sibelius joined Banks in New Burlington Street is unclear but it was probably late in 1774[6]. It is certain that by the end of 1773 Banks had a team of engravers working for him and between 1773 and 1784 eighteen different engravers were to work on the project. Most of these were relatively unknown. The longest serving and most productive engravers were Daniel MacKenzie (251 finished plates), Gerald Sibelius (195) and Gabriel Smith (118). The other engravers listed in order of output for the remaining 189 plates were: Charles White, William Tringham, Robert Blyth, Frederick Polydore Nodder, Jabez Goldar, van Drazowa, Thomas Scratchley, John Lee, Jean-Baptiste Michell, William Smith, Edward Walker, John Roberts, Thomas Morris, Bannerman and Francis Chesham.

That all were supervised by Banks and Solander is shown by the notes written on many of the drawings finished in London instructing the engravers to incorporate corrections.

Some glimpse of what Banks had in mind comes clearly through a letter from Benjamin

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[5] Letters from George Ebell to Banks. British Library Additional Manuscripts 8094 p. 21–22, 23–26, 70–73.

[6] Letter from Pierre Lyonnet to Banks. British Library Additional Manuscripts 8094 p. 97.

Franklin to an unknown engraver on 3 November 1773: '. . . Mr Banks is at present engaged in preparing to publish the Botanical Discoveries of his voyage. He employs 10 engravers for the Plates, in which he is very curious so as not to be quite satisfied in some cases with the expression given by either the Graver, Etching or Metzotints, particularly where there is a wooliness or a multitude of small points on a leaf. I sent him the largest of the specimens you sent containing a number of sprigs. I have not seen him since to know whether your manner would not suit some of his Plants better than the more common methods . . .'[7].

Peter Perez Burdett approached Banks on the same subject in a letter of the same date as that of Franklin[8]. It was prompted independently, it would seem, by Burdett's discussions with Thomas Pennant (1726–1798) of Downing on the application of colour to published illustrations of natural history. The case in point was his inspection of George Knorr's *Lapides diluvi universalis testes*, Volume 4 (1755), with its fifty-seven coloured plates, excellent in their own way as coloured engravings but, in Burdett's view, something to be improved upon if artistic precision was paramount.

He then produced for Banks several samples of what were in effect aquatints showing his own technique for the application of colour[8].

But while it is clear from the evidence of later years that colour in published prints was in his mind Banks apparently felt unable to depart from attempting the best that engravers on copper could produce in black lines alone. So, in spite of the new fields opened up by the aquatint experiments of Paul Sandby and Peter Burdett, Banks kept his engravers steadily at work exploring various virtuoso techniques of engraving as the prime means of capturing the nuances of shadow and surface texture for the purposes of an exact pictorial record of a plant's essential structures.

II – THE SOHO SQUARE PHASE 1777–1784

The second phase of the project began in the summer of 1777 when Banks moved from New Burlington Street to 32 Soho Square. Jonas Dryander, a Swedish naturalist, arrived in London in early July and by August 1777 was working with Banks at Soho Square. Amongst the artists a new order had also evolved. John Frederick Miller had been diverted in 1776, with Banks' agreement, to make drawings for Dr Alexander Hunter's new edition of John Evelyn's *Sylva*[9]. Later he had also published, without permission, some of the plant drawings made for Banks who as a result severed all connections with him. James Miller and John Cleveley had also gone their separate ways. In their place, from an obscure background but with a deft artistic touch, had come Frederick Polydore Nodder (fl. 1770s–1800s) to carry alone for the next few years the task of making 271 finished drawings and to add his own modest quota to the copper engravings. MacKenzie, Sibelius and Gabriel Smith continued the main task of engraving.

For nearly five years this regime operated until the sudden death of Solander in May 1782. Even then the work did not entirely cease but the pace apparently slowed down. Indeed the chosen list of plants for engraving had been almost completed, although there was certainly enough unfinished work to keep Nodder and MacKenzie occupied until the late 1780s.

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[7] Letter from Benjamin Franklin to an engraver. American Philosophical Society, 81.

[8] Letter from Peter Perez Burdett to Banks. British Library Additional Manuscripts 33977 p. 28–29.

[9] Letter from Edward Hugh Boscawen to Banks. Dawson Turner Correspondence, British Museum (Natural History) **1**: 69–70. Letter from Sir John Russell to Banks. Dawson Turner Correspondence, British Museum (Natural History) **1**: 71.

It is important to note that during this phase, early in 1778, Joseph Gaertner visited Soho Square where Banks gave him free access to the *Endeavour* collections for his taxonomic work on fruits and seeds. He was allowed to study the Solander and Banks diagnoses on the manuscript slips and to dissect, draw and describe those specimens for which there were no duplicates. However, when he left London he was given all duplicates available with Banks' promise of others as they came to hand. Having nearly finished the descriptions and drawings, in June 1784 Gaertner sent Banks his first list of genera with prints of the engravings seeking further particulars of those plants of which he had no specimens. Thus the first two volumes of *De Fructibus et Seminibus Plantarum*, published in 1788 and 1790, are rich with details from the original *Endeavour* plant specimens and their associated manuscript names and diagnoses 'ex herbario Banksiano'.

III – THE FAILURE OF BANKS TO PUBLISH

By examining Bacstrom's *Catalogue of Drawings* and the supplementary list of plates compiled by Dryander, it is possible to deduce that 753 copper plates were engraved.

It is unlikely that Banks ever intended to publish all of the drawings, as notes on some outline drawings indicate that they were 'not to be finished', and on some finished drawings that they were 'not to be engraved'. This is confirmed in a letter from Banks to Edward Hasted in February 1782 '. . .Botany has been my favourite Science since my childhood and the reason I have not published the account of my travels is that the first from want of time necessarily brought on by the many preparations to be made for my second voyage, was entrusted to the care of Dr Hawkesworth; and since that I have been engag'd in a Botanical work which I hope soon to publish, as I have now near 700 solid plates prepar'd: it is to give an account of the new plants discovered in my voyage round the world somewhat above 800'.[10] Banks' intention therefore was to publish only new species but his grand plan to publish a florilegium of *Endeavour* plants was never realised.

Banks' failure to publish has been a source of much speculation by Beaglehole (1962) and others (Edwards, 1978; Stearn, 1969). It is likely to have been a combination of reasons but prominent amongst these must have been the magnitude of the project and its high cost.

As early as June 1775 Solander had written in a letter to Banks 'we go on pretty well in Drawing and Engraving, but Mr Van [?Drazowa] . . .will hardly have finished the painting at your return, he works hard till 5 o'clock, but is immensely slow . . .'[11] Banks also notes slow progress in December 1778 in a letter to Linnaeus (fil)[11] '. . .uninterruptedly, however, as I have applied to the work of engraving for nearly five years. I have not yet advanced above half of my intended progress. About 550 plates are engraved, and I think, if circumstances as yet unexpected do not oblige me to cut it short, it will extend to double that number' (J.E. Smith, 1821). It is apparent therefore that Banks underestimated the time required for the project. It was not possible to speed the process up because of the high standard of engraving demanded by both Banks and Solander. Another six years were to elapse before Banks felt the end of the project might probably be in sight.

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[10] Letter from Banks to Edward Hasted. Dawson Turner Correspondence, British Museum (Natural History) II:97–100.

[11] Letter from Dr D.C. Solander to Banks. Mitchell Library Banks Manuscripts As 24/3.

In November 1784 he wrote to Johan Alströmer '. . .The botanical work with which I am presently involved is nearing its conclusion. Because everything was produced by our common effort, Solander's name will appear on the title page next to mine. While he was alive there was hardly a passage composed on which he was not represented. Since all the descriptions were made when the plants were fresh, nothing remains to be done, except to fully work out the drawings still not finished, and to record the synonyms from books which we did not have with us or which have come out since. All that is left is so little that it can be completed in two months; if only the engravers can come to put the finishing touches on it.' (Rauschenberg, 1964). Again this reveals Banks' underestimate of what was still required. In 1784 most of the drawings and engravings selected for publication were completed but the text was completed for only the first half of the voyage and for New Zealand. Banks' intention was to issue the publication in parts and by 1784 he was probably ready to publish the results of the early part of the voyage.

Solander's death in 1782 must have been a major contributing factor to the failure to publish, although Marshall (1977) points out that Solander was also unable to devote all his time to the publishing project, as he was appointed Keeper of the Department of Natural and Artificial Productions at the British Museum in 1773, and was concurrently curator/librarian to Banks. He played a key role, not only in supervising the artists and engravers, but also in writing the text, a role which became more important as Banks' attention was diverted.

Banks brings this point out in two letters to Martijn van Marum in May 1791 when he wrote that the attention he had to give to the Royal Botanic Garden at Kew had delayed the progress of his own work, which he intended to issue in parts[12]. Then in February 1792 he wrote that his own work on the plants collected during his voyage round the world had been retarded by his attention to public affairs, and particularly with the equipment of vessels making voyages for scientific purposes; he had given much attention to the Royal Garden and the preparation of coloured plates of plants cultivated there[13]. These letters show how Banks' involvement in public affairs adversely affected his plans for the *Endeavour* voyage publication.

A clearer idea of the costs of the project likely to have been incurred by Banks, can be obtained by examining the work of Daniel MacKenzie. MacKenzie was the principal engraver for the *Endeavour* drawings and was also used by Banks for engraving most of the plates for Franz Bauer's *Delineation of Exotick Plants* (1796) as well as engraving 250 of the 300 plates for Roxburgh's *Plants of the Coast of Coromandel* over the years 1795–1800. Everard Home recorded in a copy of Bauer's work (now held in the Botany Library, British Museum (Natural History)) that MacKenzie was paid four guineas for each plate for the work by Bauer. These are magnificent plates completed with the utmost attention to detail and accuracy and can be compared in quality to those completed by Mackenzie for the *Endeavour* voyage.

In 1794 Banks in a letter to the Honourable East India Company estimates the cost and presents a plan for the publication of Dr Roxburgh's *Plants of the Coast of Coromandel*[14]. This publication is based on drawings of plants made by native Indian artists with descriptions compiled by Roxburgh. Banks recommends publication in parts suggesting two fascicles each year consisting of 25 plates each with text. He estimates the cost of engraving the plates at £3 each. This figure is lower than MacKenzie was paid for the Bauer plates probably because the style of the engraving is much simpler and less detailed than either the Bauer plates or the *Endeavour* plates. It is likely that the minimum cost of engraving the *Endeavour* voyage plates averaged in the region of £3 each. The cost of the completed drawings made in London was probably about £3 each. This figure is based on the price offered to John Frederick Miller for drawings for Alexander Hunter's edition of Evelyn's *Sylva* by Sir John Russell in a letter to Banks in May 1774 (see Footnote 9, p. 11). These figures give a total cost for the plates of £4518 (i.e. 753×£6). Based on Banks' estimate for Roxburgh's *Plants of the Coast of Coromandel*, the printing of the text and binding could have been a further £7500. Thus the minimum total cost of publishing the botanical results of the *Endeavour* voyage would have been a little in excess of £12,000. This was an enormous sum probably equivalent to £720,000 in today's money (Rousseau & Porter, 1980).

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[12] Letter from Banks to Martijn van Marum. British Library Additional Manuscripts 56297–56302 Joseph Banks Papers XLI–XLV (68(i) p. 11).

[13] Letter from Banks to Martijn van Marum. British Library Additional Manuscripts 56297–56302 Joseph Banks Papers XLI–XLV (68(i) p. 12).

[14] Letter from Banks to the Court of Directors of the Honourable East India Company. Dawson Turner Correspondence, British Museum (Natural History) **9**: 52–56.

At a time when the American War of Independence (1775–1781) and problems of trade in long wool and agriculture generally had produced economic depression, finance may have proved a great obstacle to publication. Banks' income was particularly affected by arrears of rent from his agricultural estates in Lincolnshire. Moreover, a period of continuing depression held little prospect of successful sales of luxury publications. The French Revolution from 1789 followed by the Napoleonic Wars also affected the economy of Europe until after 1815.

THE POST-BANKSIAN PHASE

1 – 1820–1905

It is known that the engravers took about three sets of black ink impressions and that some proofs were sent to other botanists. One such proof set is bound with the drawings at the British Museum (Natural History), South Kensington. Twenty-eight plates form a folio volume in the Akademie Library, Berlin; some sixty went to the Alströmers family in Sweden; others went to A. von Haller (Berne), F. Allamand (Leiden), A.J. Cavanilles (Paris) and possibly P.S. Pallas (St Petersburg); but how many were so distributed is not clear. During Banks' lifetime, however, the *Endeavour* collections were freely available for inspection and study by scholars.

Shortly before his death in 1820 Banks bequeathed his magnificent herbarium and library to his curator/librarian Robert Brown who had served first as an assistant to Dryander and from 1810 was in sole charge of the Collections. The will read '. . . I also give to the said Robert Brown the use and enjoyment during his life of my library, herbarium, manuscripts, drawings, copper plates engraved and everything else that is contained in my collections . . . and after his decease then I give and bequeath the same to the Trustees for the time being of the British Museum, or if it shall be the desire of the said Trustees and the said Robert Brown shall consent to have the same removed to the British Museum in his life time he shall be at liberty to do so . . .' (Committee on Botanical Work, 1901). The Trustees opened negotiations with Brown for the acquisition of the Banksian library and collections in February 1823. It was not until 1827 that the negotiations were completed and the collection with its keeper came under the care of the Trustees. From 1827–1835 Brown served as Keeper of the Banksian Botanical Collection. In 1834 the Trustees decided to place all the botanical collections under Brown's care and he served as Keeper of the Botanical Collections until his death in 1858.

The publication of any part of the *Endeavour* collections was never considered until William Carruthers, Keeper of Botany 1871–1895, urged the Trustees to publish the plates. On 18 June 1890 he submitted a report to them recommending the publication of a series of engraved copper plates illustrating the plants collected on Captain Cook's first and second voyages. He estimated the cost of producing 300 copies of the engravings with letter-press, bound in three volumes folio and one volume quarto, would be £900. He informed the Trustees that the booksellers Dulau & Company were prepared to give £400 for 150 copies and that the copper plates could then be sold for £100. The Trustees postponed consideration of the subject[15]. Mr F. Justen of Dulau & Company then wrote to the Trustees proposing that an edition of 300 copies be printed at Dulau & Company's expense; 150 copies to be delivered to the Trustees with the copper plates[16]. The Trustees declined Mr Justen's offer but agreed that the publication of the plates was desirable and instructed that further enquiries be made to ascertain the cost of publication. Carruthers submitted two further reports on 13 and 22 October 1890 giving details of printers estimates but again it was deferred[17]. The subject next arose in June 1893 when Sir Joseph Hooker requested permission to publish a transcript of Banks' journal made on Cook's first voyage but a decision was deferred[18]. In October 1894 Sir James Hector, Director of the New Zealand Institute, requested proofs of the plates of New Zealand plants and copies of related manuscripts for a new Flora which was being prepared for New Zealand by Thomas Kirk. The Trustees agreed to this request[19] but Kirk died in 1897 and the prints were never published. George Murray succeeded Carruthers as Keeper of Botany in 1895 and he submitted a report to the Trustees in November 1898 recommending publication of the plates from Cook's first and second voyage. He included detailed estimates for 300 copies and suggested that publication of the work should be extended over five years. The Trustees requested estimates for 500 copies and also requested estimates from foreign printers[20].

Murray submitted a further report in January 1899 including further estimates for printing an edition of 500 copies[21]. He recommended that the cheaper method of lithographic transfer be employed, that the edition be 300 copies and that the estimate of Hazell Watson and Viney for printing the plates and text be accepted. The total cost was estimated as:

Plates	£1093. 15. 0.
Text	£ 180. 0. 0.
Total	£1273. 15. 0.

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[15] British Museum (Natural History) Trustees Minutes 25 May 1889 to 22 June 1895, Volume 2. p. 637–638.

[16] British Museum (Natural History) Trustees Minutes 25 May 1889 to 22 June 1895. Volume 2 p. 650–651.

[17] British Museum (Natural History) Trustees Minutes 25 May 1889 to 22 June 1895. Volume 2 p. 665, p. 772.

[18] British Museum (Natural History) Trustees Minutes 25 May 1889 to 22 June 1895. Volume 2 p. 922.

[19] British Museum (Natural History) Trustees Minutes 25 May 1889 to 22 June 1895. Volume 2 p. 1041–1042.

[20] British Museum (Natural History) Trustees Minutes 27 July 1895 to 25 November 1899. Volume 3 p. 1535–1537.

[21] British Museum (Natural History) Trustees Minutes 27 July 1895 to 25 November 1899. Volume 3 p. 1553–1554.

The Trustees approved Murray's recommendations and directed that the work proceed when the financial estimates for the following year had been settled by the Treasury, the expenditure to be spread over three or four years. In April 1900, nearly ten years after Carruthers' original recommendation the first part was published under the direction of James Britten as *Illustrations of Australian Plants* . . . Three parts were issued:

Part I	Plates 1–100	in 1900
Part II	Plates 101–243	in 1901
Part III	Plates 244–318	in 1905

The plates were printed from lithographic stones prepared from the set of eighteenth century proof engravings and were accompanied by Solander's descriptions in Latin with the nomenclature updated by James Britten. Britten also included three additional Australian plants for which no engravings existed. Robert Morgan made new lithographic stones for these. The cost of producing the Australian plates was £837 and it had taken five years to complete that section alone. Britten reported that in his opinion the greater part of the remaining plates were already known to the scientific world, and the Trustees directed that publication should cease with Part III[22]. The Australian plates represented less than half of the Banksian copper plate collection relating to Cook's first and second voyages and the estimated cost in 1905 to complete the project would have been in excess of £800 in addition to the staff time required to supervise it.

II – 1960–PRESENT

Although Banks' grand plan for publication of his *Endeavour* collections did not come to fruition, the collections at the British Museum (Natural History), South Kensington have always been available to, and indeed used by scholars from all over the world. In the early 1960s a sample of 30 engravings from plates chosen on aesthetic grounds from each of the main geographical areas were printed in black under the inappropriate title, *Captain Cook's Florilegium* (Blunt & Stearn, 1973). Under the aegis of the British Museum (Natural History), Alecto Historical Editions are publishing all the engravings from the 738 extant plates giving them a more appropriate title – *Banks' Florilegium* (Diment & Humphries, 1980–). The printing technique, employing colour *à la poupée*, derives from a method initiated by Johannes Teyler (fl. 1650–1700) and revived (post 1796) by Pierre-Joseph Redouté (1759–1840) in conjunction with stipple engraving. This method seems curiously to have escaped English engravers (Blunt, 1950). The whole printing, of 34 boxes, will take about eight years. The first fourteen parts (315 plates) of the 337 Australian species are already published. The engravings of plants from the *Endeavour* voyage as originally selected and supervised by Banks over two centuries ago are thus finally being printed and published.

This catalogue brings together for the first time details of the specimens, drawings, copper plates, related manuscripts and publications.

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[22] British Museum (Natural History) Trustees Minutes 23 January to 24 November 1906. Volume 5 p. 2347.

AUSTRALIA

The first part of the catalogue is concerned with the drawings of plants collected on the east coast of Australia from April 28 to August 23, 1770. The localities at which Banks and Solander collected plants are as follows: in New South Wales: Botany Bay (Kurnell, Sydney); and in Queensland: Bustard Bay, Quail Island, Thirsty Sound, Bay of Inlets, Palm Island (Great Palm Island), Rocky Point, Mission Bay, Cape Grafton, Endeavour River, Point Lookout (= Lookout Point), north of Cape Flattery, Lizard Island, Islands of Cape Fear, Eagle Island, Possession Island, Booby Island, (after Groves, 1962).

In a few instances (e.g. A2/66) there is some discrepancy between the locality cited on specimens and that given on the drawings. These discrepancies may be explained by the practice of amalgamating the notes from collections from adjacent localities over a short period, e.g. Quail Island, Thirsty Sound and Bay of Inlets for 29–31 May. Parkinson was forced to complete sketches sometime after the collection of plant specimens with the result that the locality on the drawing may differ from that on specimens.

Explanation of Catalogue Entry

SAMPLE ENTRY

A1/1 **Dillenia alata** (R. Brown ex de Candolle) Banks & Solander ex Martelli in Beccari, *Malesia* **3**: 157 (1886).

Specimen: 3 sheets, Endeavour River, Point Lookout (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 271–273, 295 'Dillenia alata'; Britten, J. 1900 *Ill.*: 5 *pro descr.*; 1973 *CF*: pl. 16 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Brown' [SP]; *v* 'The old stalks sordid brown' [SP]; 'Dillenia alata' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/440.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1778'. 540×365/450; see Beaglehole, J.C. 1962 **2**: pl. 26; Carr, D.J. [Ed.] 1983 pl. 122 p. 129.

Copper plate: [GS]; Bacstrom, S. Ms.: 90; Brown, R. Ms.: 22/542. 460×295/450; engraving proof *r* [pencil] 'Dillenia alata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 1; engraving 1973 *CF*: pl. 16; col. engraving 1980 *BF*: pl. 1.

Catalogue number The catalogue number includes a letter denoting the country, e.g. A for Australia, followed by the volume number and folio number of the drawings.

e.g. A1/1 = Australia Volume 1 Folio 1

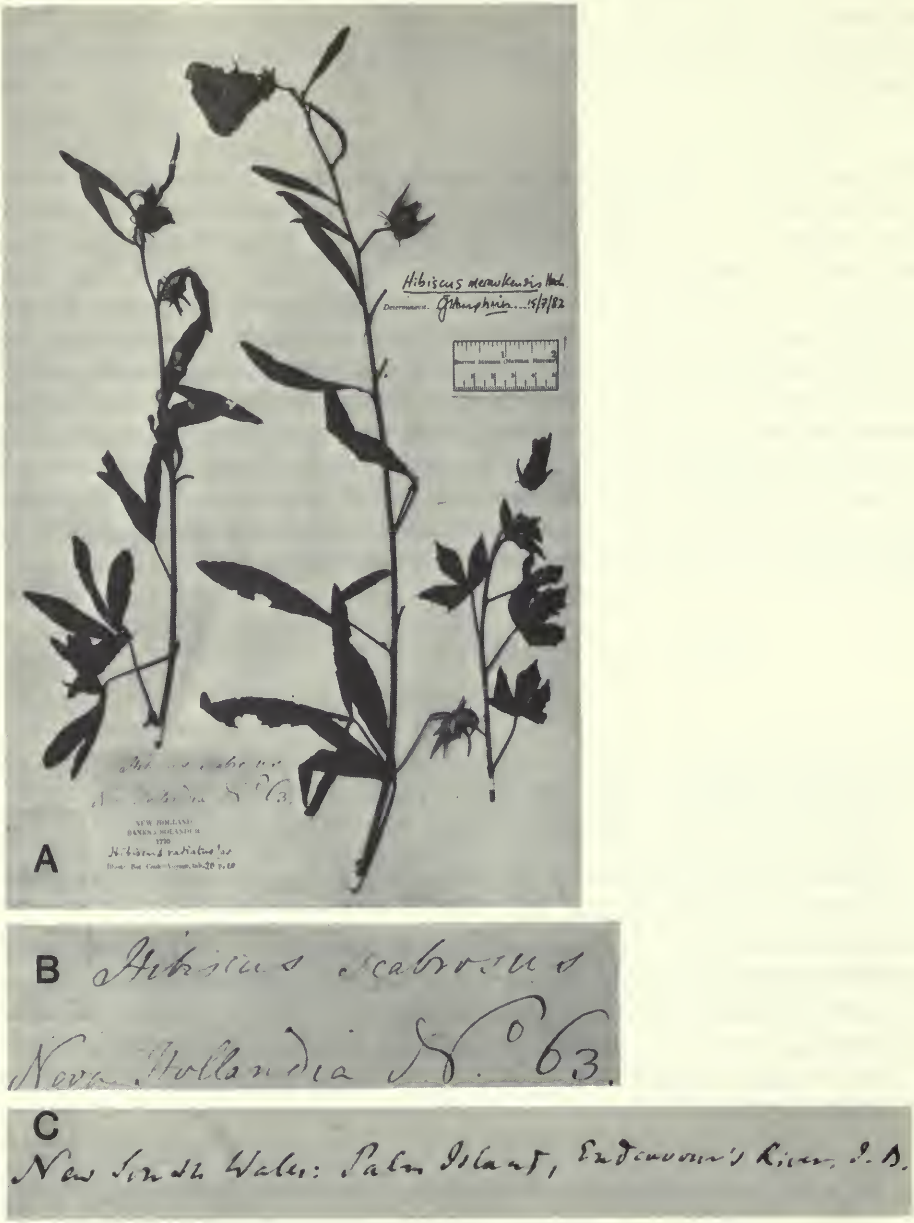

Hibiscus meraukensis Hoch.
Determinavit ... 15/7/82
1
2
NEW HOLLAND
BANKS & SOLANDER
1770
Hibiscus radiatus Cav.
A
B
Hibiscus scabrosus
Nova Hollandia No. 63.
C
New South Wales: Palm Island, Endeavour's River. J. B.

Fig. 1 (A1/24) A, *Hibiscus meraukensis*, specimen collected by Banks and Solander from Palm Island, Endeavour River on Cook's first voyage 1768–1771; B, original field note in Solander's hand indicating Banksian name, locality and family number [No. 63]; C, verso of remounted herbarium specimens showing locality details in Dryander's hand.

NAME The modern botanical name and its place and date of valid publication are given.

Abbreviations of serial titles comply with the principles adopted in the fourth edition of the *World List of Scientific Periodicals*.

Abbreviations of book titles follow F.A. Stafleu and R.S. Cowan 1967. *Taxonomic Literature* Volume 1-.

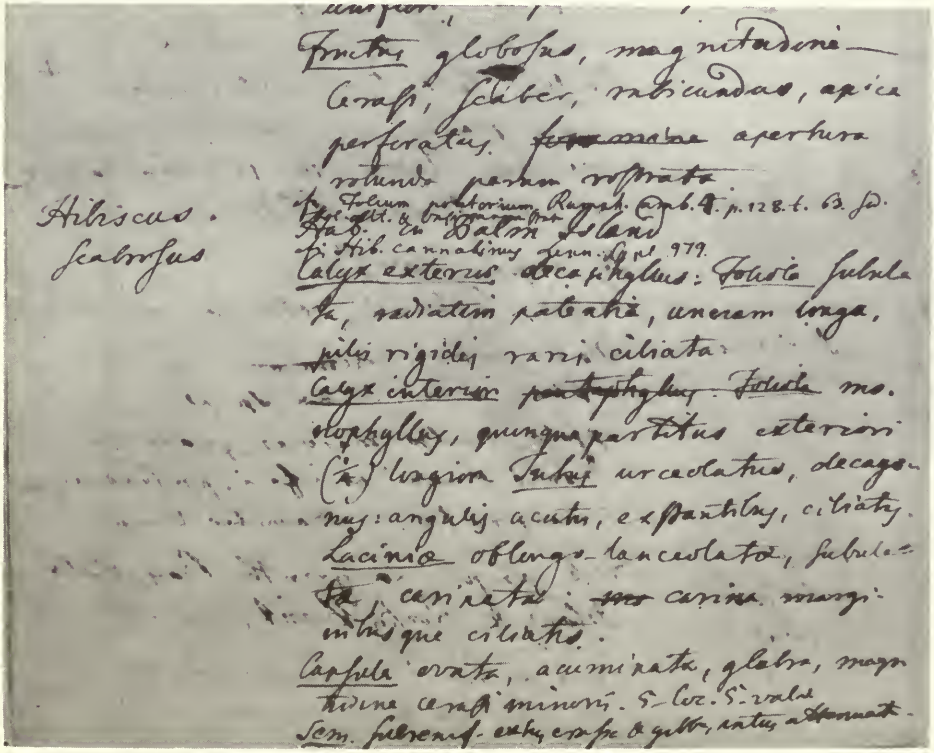
Abbreviations for herbaria follow P.K. Holmgren, W. Keuken & G.K. Schofield 1981. *Index Herbariorum*. Part I. The herbaria of the world.

SPECIMEN(S) Details of specimens located in the Department of Botany, British Museum (Natural History). The locality is recorded when it is in Daniel Solander's, Jonas Dryander's or Robert Brown's hand (Fig. 1).

Holotypes, isotypes, syntypes and designated lectotypes are indicated.

Only specimens that relate to drawings are included

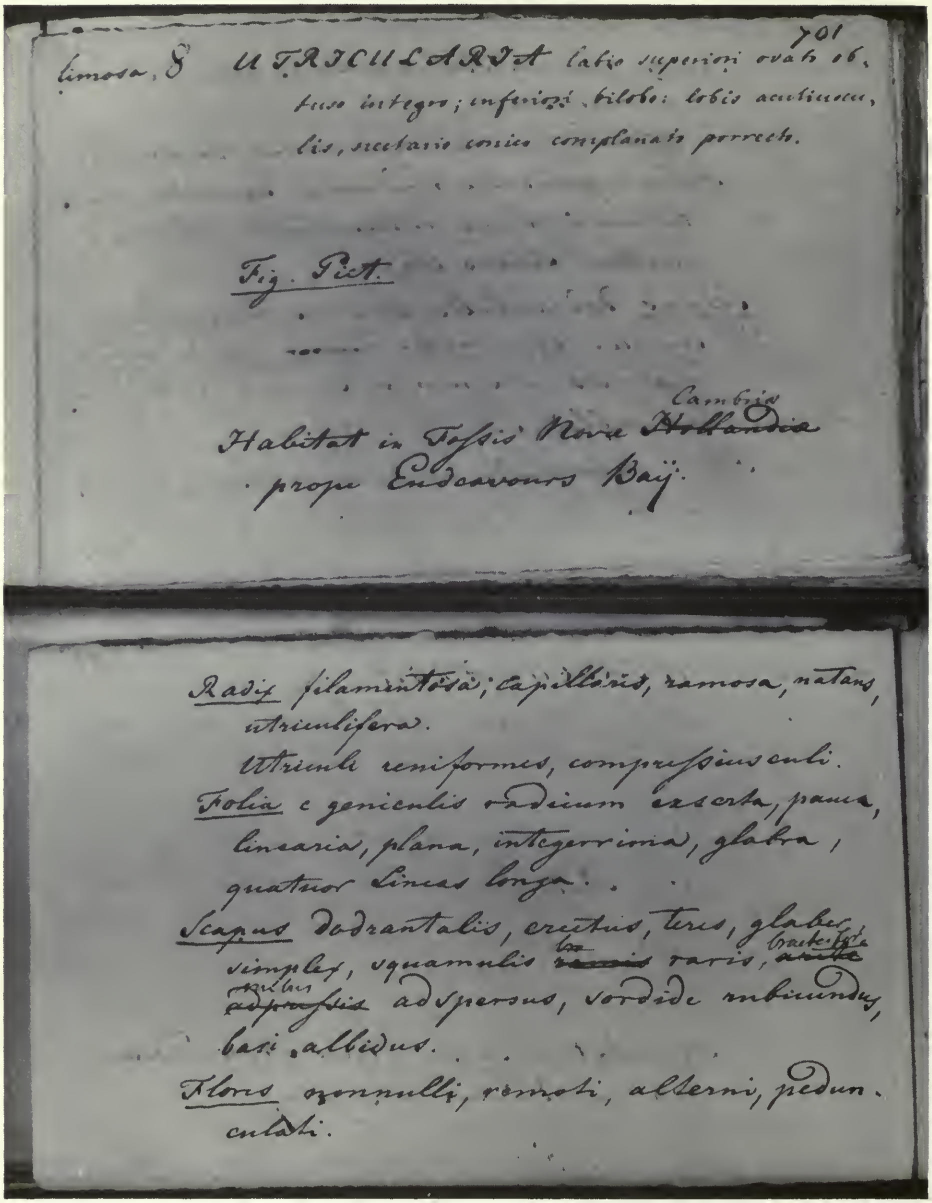
e.g. A1/1 DILLENIA ALATA
Specimen: 3 sheets, Endeavour River, Point Lookout (holotype).



Hibiscus. ſcabroſus

Fructus globoſus, magnitudine
craſſi, ſcaber, rubicundus, apice
perforatus. ~~foramine~~ apertura
rotunda parum roſtrata.
an Folium politorium Rumph. amb. 4. p. 128. t. 63. f2.
[illegible]
Hab. in Palm Island
an Hib. cannabinus Linn. Sp. pl. 979.
Calyx exterior decaphyllus: Foliola ſubula-
ta, radiatim patentia, unciam longa,
pilis rigidis raris ciliata.
Calyx interior ~~pentaphyllus~~. ~~Foliola~~ mo-
nophyllus, quinquepartitus exteriori
(½) longior Tubus urceolatus, decago-
nus: angulis acutis, expandentibus, ciliatis.
Laciniae oblongo-lanceolatae, ſubula-
tae, carinatae: ~~mar~~ carina margi-
nibusque ciliatis.
Capſula ovata, acuminata, glabra, magni-
tudine craſſi minoris. 5-loc. 5-valv.
Sem. ſubreniformia ext. craſſe & [illegible], [illegible] attenuat.

Fig. 2 (A1/24) Daniel Carlsson Solander. Plantae Novae Hollandiae [Australia] Volume 1: 160. Entry for *Hibiscus scabrosus* [=*Hibiscus meraukensis*] is shown.



701

limosa. 8 UTRICULARIA labio superiori ovato ob-
tuso integro; inferiori bilobo: lobis acutiuscu-
lis, nectario conico complanato porrecto.

Fig. Pict.

Habitat in Fossis Novae ~~Hollandiae~~ Cambriae
prope Endeavours Bay.

Radix filamentosa; capillaris, ramosa, natans,
utriculifera.
Utriculi reniformes, compressiusculi.
Folia e geniculis radicum exserta, pauca,
linearia, plana, integerrima, glabra,
quatuor lineas longa.
Scapus dodrantalis, erectus, teres, glaber,
simplex, squamulis ~~[illegible]~~ raris, ~~[illegible]~~ bracteiformibus
~~adpressis~~ adspersus, sordide rubicundus,
basi albidus.
Flores nonnulli, remoti, alterni, pedun-
culati.

Fig. 3 (A6/272B) Daniel Carlsson Solander. Manuscript Slip Catalogue Volume **1**: 701–705. Entry for *Utricularia limosa* is shown.

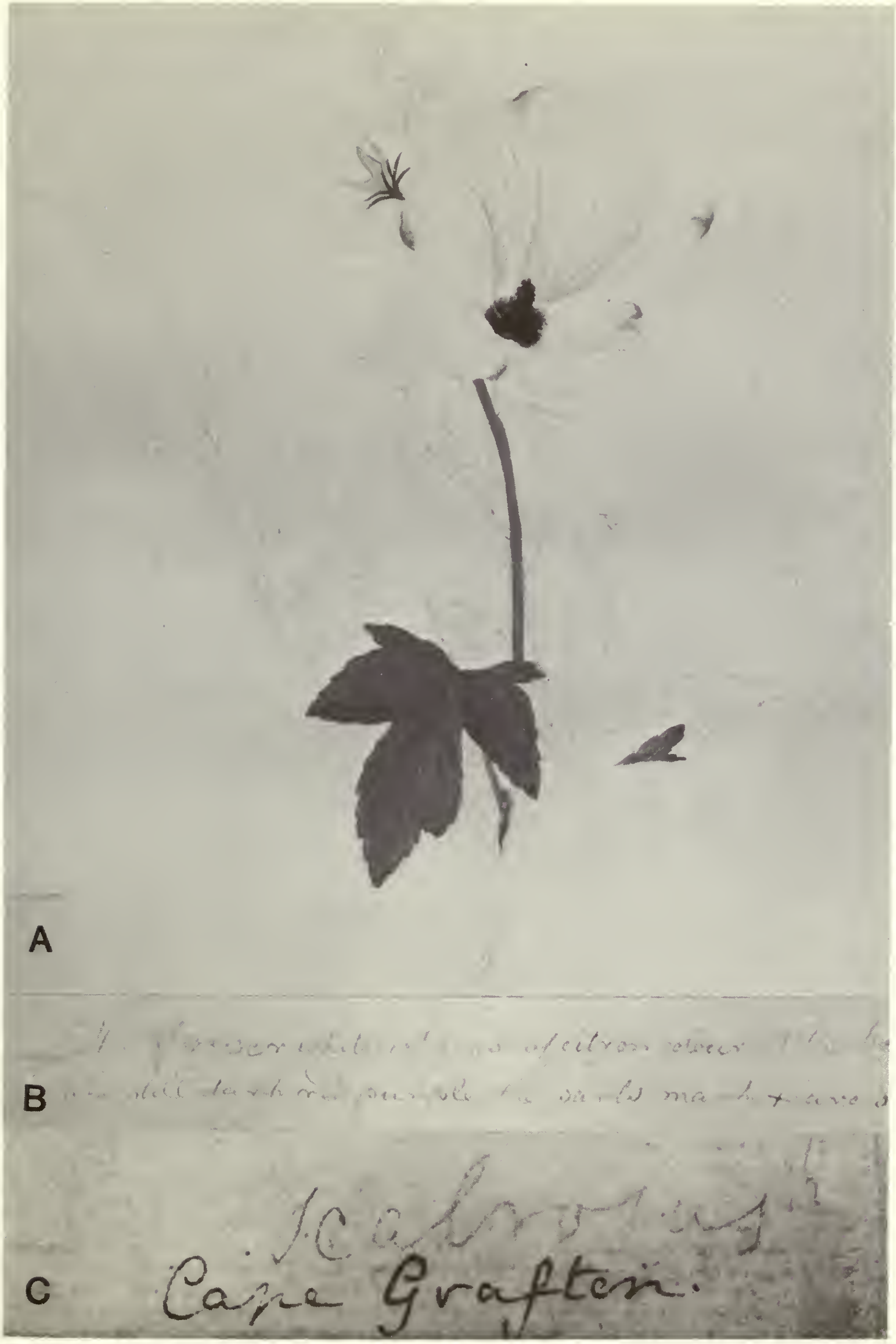


Fig. 4 (A1/24) A, *Hibiscus meraukensis*, outline sketch with colour references; B, verso – colour notes in hand of Sydney Parkinson; C, verso – locality (Cape Grafton) in hand of Joseph Banks.

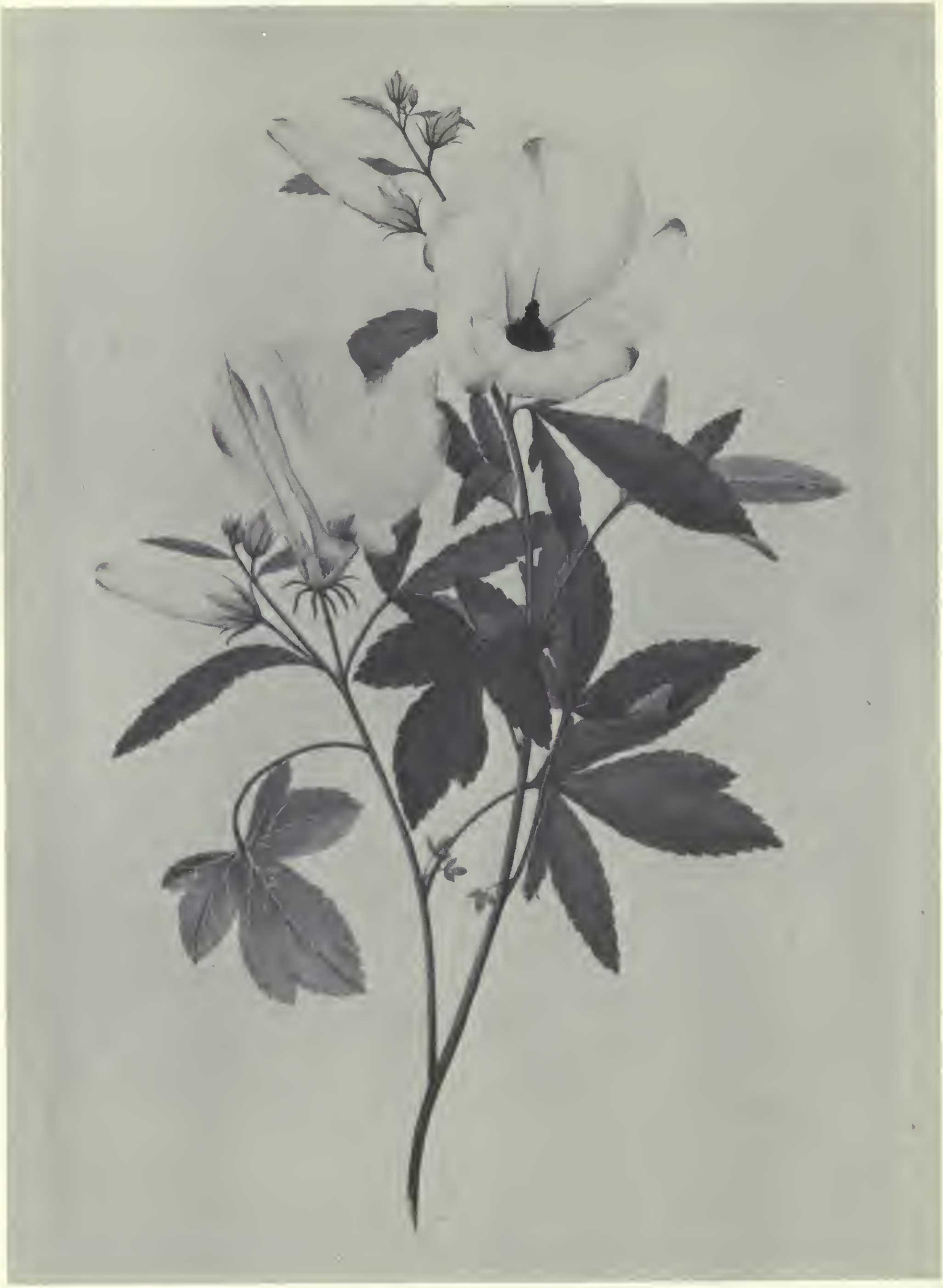
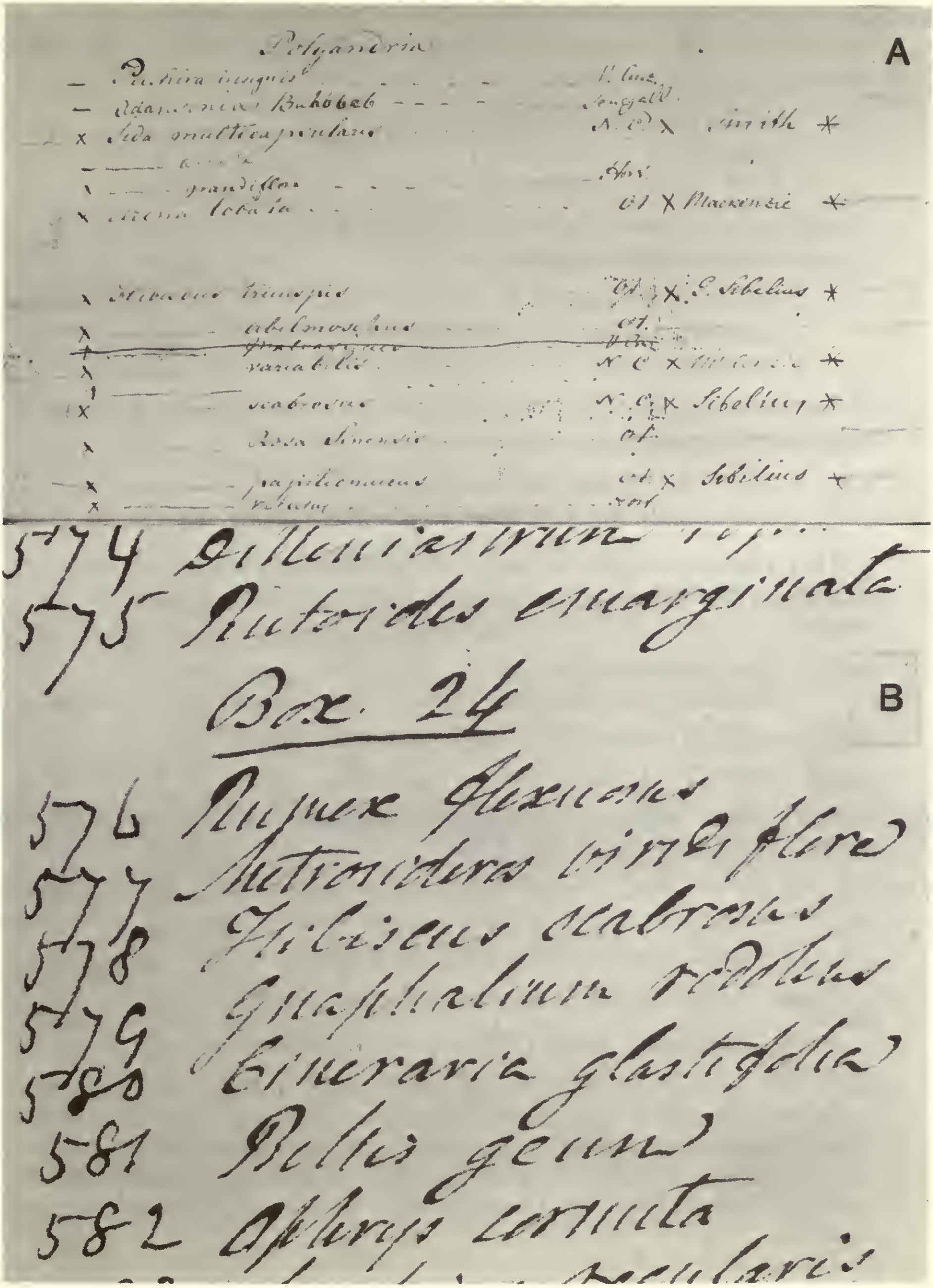


Fig. 5 (A1/24) Frederick Polydore Nodder. *Hibiscus meraukensis*. Watercolour drawing.



Polyandria
— Pachira insignis ... [illegible]
— Adansonia Bahobab ... Sengall.
x Sida multicapsularis ... N. C. x Smith *
— —— [illegible] ... [illegible]
x —— grandiflora ...
x Urena lobata ... Ot X Mackenzie *

x Hibiscus tricuspis ... Ot. X S. Sibelius *
x —— abelmoschus ... Ot.
~~+ —— fraternus ... [illegible]~~
x —— variabilis ... N C x [illegible] *
x —— scabrosus ... N. C. x Sibelius *
x —— Rosa sinensis ... Ot.
x —— papilionaceus ... Ot. x Sibelius *
x —— velutinus ... Ot.

574 Dilleniastrum [illegible]
575 Rutoides emarginata

Box 24

576 Rumex flexuosus
577 Metrosideros viridiflora
578 Hibiscus scabrosus
579 Gnaphalium [illegible]
580 Cineraria glastifolia
581 Bellis [illegible]
582 Ophrys cornuta

Fig. 6 (A1/24) A, Sigismund Bacstrom. Catalogue of the botanical drawings in the library of Sir Joseph Banks. Entry for *Hibiscus scabrosus* (=*Hibiscus meraukensis*) is shown. B, Robert Brown. Catalogue of engraved copper plates in the presses in the Engravers' room (under the Inner Library or Herbarium). Entry for *Hibiscus scabrosus* (=*Hibiscus meraukensis*). Box 24 No. 578 is shown.

MANUSCRIPT 1. The volume and page reference to the original description of the plant in Daniel Solander, Plantae Novae Hollandiae (Pl. Nov. Holl.) is noted together with the name used in the manuscript by Solander.

e.g. A1/24 HIBISCUS MERAUKENSIS
Manuscript: Solander, D. Pl. Nov. Holl.
1: 160 'Hibiscus scabrosus' (Fig. 2).

In most cases the manuscript name has been reduced to synonymy

e.g. A1/2 HIBBERTIA BANKSII

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 367–368 'Curatelloides cistifolia', a synonym for *Hibbertia banksii* (R. Brown ex de Candolle) Bentham.

2. Where relevant the volume and page reference to the description in Daniel Solander's Manuscript Slip Catalogue is noted

e.g. A6/272b UTRICULARIA LIMOSA
Solander, D. Slip Catalogue **1**: 701–705 (Fig. 3).

3. This is followed by the reference to the published version of Solander's description of the plant in J. Britten 1900–1905. *Illustrations of Australian Plants...*

e.g. A1/1 DILLENIA ALATA
Britten, J. 1900 Ill.: 5 *pro descr.*

and Blunt, W. & Stearn, W.T. 1973. *Cook's Florilegium*

e.g. 1973 *CF*: pl. 16 *pro descr.*

OUTLINE DRAWING These are the outline drawings made by Sydney Parkinson on the voyage (Fig. 4A, B, C).

FINISHED DRAWING These are either completed drawings made by Sydney Parkinson on the voyage or by the team of artists working in London from 1773–1784 (Fig. 5).

The following details are given for each drawing:

1. Media, i.e. pencil, ink, watercolours, etc.

2. Sydney Parkinson's initials [SP] are given in square brackets for his unsigned drawings.

3. All the annotations on the drawings that are considered to have been made in Banks' lifetime are recorded. Annotations on the recto of the drawing are preceded by *r* and those on the verso by *v*. All annotations are included between inverted commas. The medium of the annotations (i.e. pencil or ink) is noted in square brackets.

The annotations include colour notes by Parkinson, the manuscript name of the plant assigned by Banks and Solander and the locality from which the specimen was collected.

In some instances part of the annotation has been partially deleted by Parkinson; where it is still possible to read these they have been transcribed and enclosed between double square brackets, e.g. [[ ]]. Some of the finished drawings also have correction notes which are instructions to the engravers. Many of Parkinson's drawings also have a number which is recorded.

When a drawing has been published the reference is given to the publication; this has been done only for the most important works including:

BEAGLEHOLE, J.C. Editor. 1962. *The Endeavour journal of Joseph Banks 1768–1771.* Sydney (The Trustees of the Public Library of New South Wales in association with Angus and Robertson) 2 vols. (Vol. 1, xxvii – 476 pp 60 pls; Vol. 2, xvi–406 pp 57 pls)

e.g. A1/1 DILLENIA ALATA
see Beaglehole, J.C. 1962 **2**: pl.26
STEARN, W.T. 1968. The botanical results of the *Endeavour* voyage.
Endeavour xxvii: 3–10 pls 1–9.

e.g. A2/86 ERYTHRINA VESPERTILIO

see Stearn, W.T. 1968. *Endeavour* xxvii: 6, fig. 5 col. pl.

CARR, D.J. Editor. 1983. *Sydney Parkinson Artist of Cook's Endeavour Voyage.* Canberra (British Museum (Natural History) in association with Australian National University Press) 290 pp 253 pls.

e.g. A1/1 DILLENIA ALATA

see Carr, D.J. [Ed.] 1983 pl. 122 p. 129.

Colour plates are noted
e.g. A1/24 HIBISCUS MERAUKENSIS
see Beaglehole, J.C. 1962 **2**: pl. iv col. pl.

The size of the drawing is recorded in millimetres as follows: height×width/ height of plant drawn.

e.g. A1/1 DILLENIA ALATA
545×365/440.

COPPER PLATE The name of the engraver is recorded by initials in square brackets e.g. [GS]. The name of the engraver is usually taken from Bacstrom's Catalogue of the botanical drawings in the library of Sir Joseph Banks, and/or occasionally the engraving proof is signed by the engraver.

The copper plates were catalogued by Robert Brown when they were stored in boxes in the British Museum. The box number and plate number is indicated

e.g. A1/24 HIBISCUS MERAUKENSIS
Brown, R.Ms: 24/578
this is plate number 578 in box 24(Fig 6B).
Occasionally the plate number is missing and it has only been possible to assign a box number.

The size of the copper plate is recorded in millimetres as follows: height×width/ height of plant engraved. e.g. 460×295/450.

ENGRAVING PROOF The engraving proofs taken from the copper plates in the eighteenth century are recorded (Fig. 7).
All annotations are noted as for the drawings.

LITHOGRAPH The lithographs made from the copper plates from 1900–1905 and published in Britten, J. *Illustrations of Australian Plants. . .* are recorded, including the plate number.

e.g. A1/1 DILLENIA ALATA
lithograph; Britten, J. 1900 *Ill.*: pl. 1.

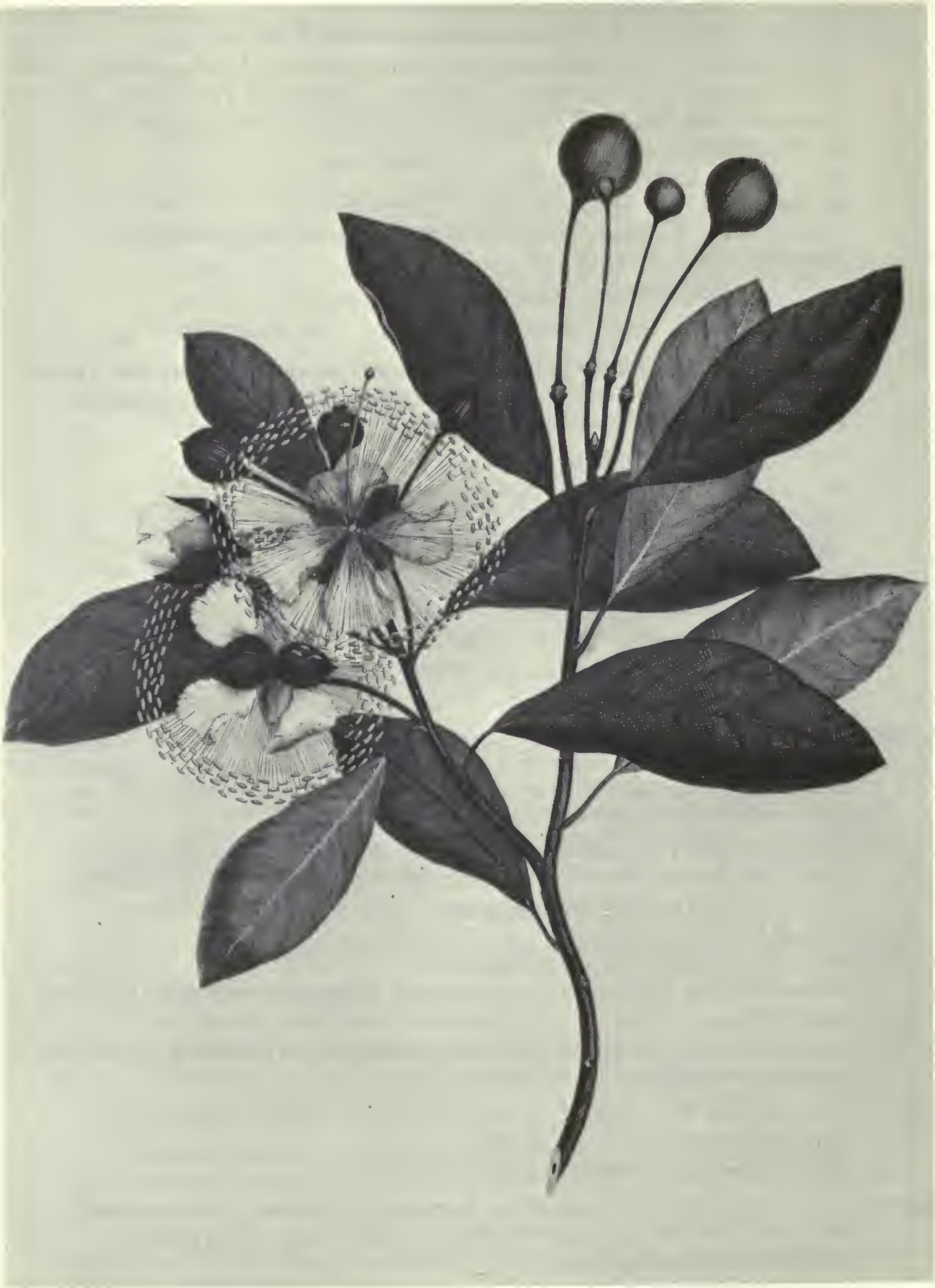


Fig. 7 (A1/8) Daniel MacKenzie. *Capparis lucida*. Black and white eighteenth century proof engraving.

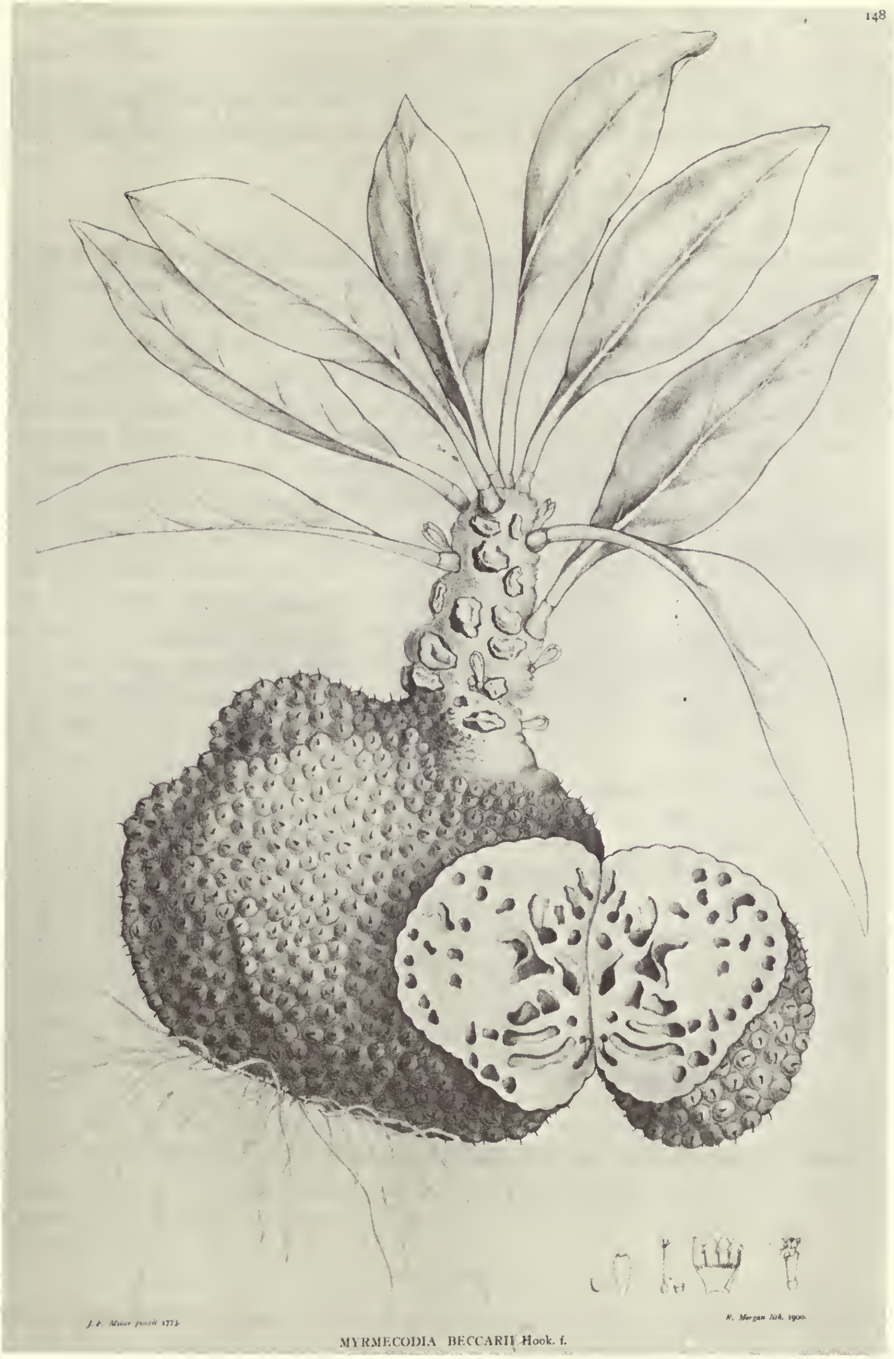

148
J. F. Miller pinxit 1773
R. Morgan lith. 1900
MYRMECODIA BECCARII Hook. f.

Fig. 8 (A4/174) *Myrmecodia beccarii* in Britten, J. 1905. *Illustrations of Australian plants.* London (British Museum) plate 148. A lithograph from a specially prepared stone by Robert Morgan. Three stones were made for important drawings for which there were no copper plates.

Lithographic stones made by Robert Morgan for Britten are indicated by [RM]
e.g. A4/174 Myrmecodia beccarii
lithograph; [RM]; Britten, J. 1900 *Ill.*: pl. 148 (Fig. 8).

Engraving The black and white engravings made from the copper plates and published in *Cook's Florilegium* (Blunt & Stearn 1973) are recorded including the date and plate number
e.g. A1/1 Dillenia alata.
engraving 1973 *CF*: pl. 16.

The coloured engravings made from the copper plates and published in *Banks' Florilegium* (Diment & Humphries 1980-) are recorded with date of publication and plate number
e.g. A1/24 Hibiscus meraukensis
col. engraving 1980 *BF:* pl. 23. (Fig. 9).

ABBREVIATIONS

Names of Engravers

B	Bannerman
RB	Robert Blyth
FC	Francis Chesham
D	Van Drazowa
JG	Jabez Goldar
JL	John Lee
DM	Daniel MacKenzie
M	Jean-Baptiste Michell
TM	Thomas Morris
FPN	Frederick Polydore Nodder
JR	John Roberts
TS	Thomas Scratchley
GS	Gerald Sibelius
G. Smith	Gabriel Smith
WS	William Smith
WT	William Tringham
EW	Edward Walker
CW	Charles White

Other names

JB	Joseph Banks
RM	Robert Morgan
SP	Sydney Parkinson
Sm.	James Edward Smith

Countries

A	Australia
NZ	New Zealand
B	Brazil
SI	Society Islands
T	Tierra del Fuego
M	Madeira
J	Java

*Items prefixed by an asterisk were not seen by the compilers.

INDEXES

1. Index of plant names – alphabetical, including the family names, modern species names and manuscript names with reference to the catalogue entry number.
2. Geographical index – alphabetical for localities with reference to the catalogue entry number.
3. Name index – alphabetical for names of artists and engravers, with reference to the catalogue entry number.

MICROFICHE

A microfiche collection of all specimens, drawings, engravings and lithographs recorded in the catalogue is available from Meckler Publishing, 520 Riverside Avenue, Westport, C.T. 06880, U.S.A.

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THE CATALOGUE

DILLENIACEAE

A1/1 Dillenia alata (R. Brown ex de Candolle) Banks & Solander ex Martelli in Beccari, *Malesia* **3**: 157 (1886).

Specimen: 3 sheets, Endeavour River, Point Lookout (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 271–273, 295 'Dillenia alata'; Britten, J. 1900 *Ill.*: 5 *pro descr.*; 1973 *CF*: pl. 16 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Brown' [SP]; *v* 'The old stalks sordid brown' [SP]; 'Dillenia alata' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/440.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1778'. 540×365/450; see Beaglehole, J.C. 1962 **2**: pl. 26; Carr, D.J. [Ed.] 1983 pl. 122 p. 129.

Copperplate: [GS]; Bacstrom, S. Ms.: 90; Brown, R. Ms.: 22/542. 460×295/450; engraving proof *r* [pencil] 'Dillenia alata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 1; engraving 1973 *CF*: pl. 16; col. engraving 1980 *BF*: pl. 1.

A1/2 Hibbertia banksii (R. Brown ex de Candolle) Bentham, *Fl. austral.* **1**: 20 (1863).

Specimen: Endeavour River, Point Lookout (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 367–368 'Curatelloides cistifolia'; Britten, J. 1900 *Ill.*: 5 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '4' [unknown]; '118' [unknown]; *v* 'The flowers & stamina bright yellow.' [SP]; 'Curatelloides cistifolia' [?] [unknown]; [ink] 'Endeavours River' [JB]. 375×270/300.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1778'. 545×365/310.

Copper plate: [DM]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 20/485. 460×295/305; engraving proof *r* [pencil] 'Curatelloides cistifolia' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 2; col. engraving 1980 *BF*: pl. 2.

A1/3 Hibbertia scandens (Willdenow) Gilg in Engler & Prantl, *Nat. Pflanzenfam.* **3** (6): 117 (1895).

Specimen: Botany Bay, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 68 'Dilleniastrum reptans'; Britten, J. 1900 *Ill.*: 5 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '40' [?] [unknown]; *v* 'The flowers & stamina bright yellow, the calyx & young leaves like the Argentina.' [SP]; 'Dilleniastrum reptans' [unknown]; '68' [unknown]; [ink] 'Botany Bay' [JB]. 470×295/185.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1778'. 545×370/385.

Copper plate: [DM]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 23/574. 460×295/385; engraving proof *r* [pencil] 'Dilleniastrum reptans' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 3; col. engraving 1980 *BF*: pl. 3.

MENISPERMACEAE

A1/4 Tinospora smilacina Bentham, *J. Proc. Linn. Soc.* (Bot.) **5**, suppl. 2: 52 (1861).

Specimen: no locality. Britten (1900) states (p. 6) 'Endeavour's River. I do not find specimens from Banks, nor are they mentioned by Bentham, but Brown cites the MS. name as from Solander's MSS. on the label attached to his specimens from the Islands of the Gulf of Carpentaria, and Bentham identifies these with his plant.'. W.T. Stearn notes in pencil on BM copy of Britten that 'found since in set not laid in [i.e. dupl.] the only specimen collected'.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 341–342, 460 'Tamoides corollulata'; Britten, J. 1900 *Ill.*: 6 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '2 flowers near one another' [SP]; *v* 'The flower pale green stamina white anthera yellow.' [SP]; 'Tamoides corollulata' [unknown]; [ink] 'Endeavours River' [JB]. 545×355/430.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. pinx^{t}. 1781'. 545×350/435.

Copper plate: [GS]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 29/718. 465×305/430; engraving proof *r* [pencil] 'Tamoides corollulata' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. 1900. *Ill.*: pl. 4; col. engraving 1980 *BF*: pl. 4.

A1/5 Hypserpa decumbens (Bentham) Diels in Engler, *Pflanzenr.* **4** (94): 212 (1910).

Specimen: Port Fear (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 598–600 'Adelioides decumbens'; Britten, J. 1900 *Ill.*: 6 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'x or 1.5 [?] [unknown]; *v* 'The flowers very pale green fuit pale yellow green' [SP]; 'P.F.' [unknown]; 'Adelioides decumbens' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/360.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder pinx^{t} 1781'. 540×365/450.

Copper plate: [GS]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 29/719. 460×295/305; engraving proof *r* [pencil] 'Andelioides decumbens' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. 1900 *Ill.*: pl. 5; col. engraving 1980 *BF*: pl. 5.

NYMPHAEACEAE

A1/6 NYMPHAEA VIOLACEA Lehmann in F. Otto & A. Dietrich, *Allg. Gartenztg* **21**, *no.* 50:407 (1853).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:353–354, 369 'Nymphaea parvifolia'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '10' [unknown]; '117' [unknown]; *v* 'The leaves above grass green w^t obsolete veins below deep blue purple w^t yellow green veins' [SP]; 'Nymphaea parvifolia' [unknown]; [ink] 'Endeavours River' [JB]. 370×270/165.

[Not in Bacstrom].

CAPPARIDACEAE

A1/7 CAPPARIS CANESCENS Banks ex de Candolle, *Prodr.* **1**:246 (1824).

SPECIMEN: Bay of Inlets (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**:191 'Capparis canescens'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '41' [unknown]; *v* 'The fruit green stain'd w^t dark purple.' [SP]; 'Capparis canescens' [unknown]; '3' [unknown]; '153' [unknown]; [ink] 'Thirsty Sound'. [JB]. 470×295/405.

[Not in Bacstrom].

A1/8 CAPPARIS LUCIDA (Banks & Solander ex de Candolle) Bentham, *Fl. austral.* **1**:96 (1863).

SPECIMEN: Torres Straits, Booby Island (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**:605–606, 625–626 'Capparis lucida'; Britten, J. 1900 *Ill.*: 6 *pro descr*; 1973 *CF*: pl. 17 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '77' [unknown]; *v* 'Petala white ting'd w^t green two in foliola calycina more green the two outer ones & the Buds dark grass green stamina white anthera pale yellow, stile ting'd w^t red stigma green' [SP]; 'Capparis lucida' [unknown]; [ink] 'Booby Island' [JB]. 545×365/335.

FINISHED DRAWING: watercolours *r* [pencil] 'no hairs on the leaves' 'Longer Foot stalk' 'all the petala laxly fimbriate' [DM[?]]; [ink] 'Fred^k Polydore Nodder Pinx^t 1779'. 545×365/335; see Carr, D.J. [Ed.] 1983 pl. 123 p. 132.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 90; Brown, R. Ms.: 23/572. 455×365/345; engraving proof *r* [pencil] 'Capparis lucida' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 6; engraving 1973 *CF*: pl. 17; col. engraving 1980 *BF*: pl. 6.

NOTES: the pencil annotations on the finished drawing are correction notes for what appears to be an inaccurate drawing. The corrections have been incorporated into the engraving.

VIOLACEAE

A1/9a **VIOLA HEDERACEA** Labillardière, *Nov. Holl. pl.* **1**: 66, t. 91 (1805).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 52–53 'Viola grandiflora'; Britten, J. 1900 *Ill.*: 7, viz. A. *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '163' [unknown]; *v* 'The leaves a fresh grass green w^{t} prom^{t} veins the underside somewhat paler the stalks pale stain'd w^{t} red at the bottom'. [SP]; '60' [?] [unknown]; 'Viola grandiflora' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/265.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1782'. 545×365/265.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 26/644. 460×295/265; engraving proof *r* [pencil] 'Viola grandiflora' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 7A; col. engraving 1980 *BF*: pl. 7.

A1/9b **VIOLA HEDERACEA** Labillardière, *Nov. Holl. pl.* **1**: 66, t. 91 (1805).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 53 'Viola humilis'; Britten, J. 1900 *Ill.*: 7, viz. B. *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '164' [unknown]; *v* 'The Petala very pale blue purple stain'd at base w^{t} darker which dyes away into the other. The 3 lower petala vein'd w^{t} red purple. The leaves a grass green.' [SP]; '48' [unknown]; 'Viola humilis' [unknown]; [ink] 'Botany Bay' [JB]. 365×270/110.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 365×270/115.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 26/646. 460×295/115; engraving proof *r* [pencil] 'Viola humilis' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 7B; col. engraving 1980 *BF*: pl. 8.

A1/10 **HYBANTHUS ENNEASPERMUS** (Linnaeus) F. Mueller, *Fragm.* **10**: 81 (1876).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 490–492 'Viola enneasperma Linn.'; Britten, J. 1900 *Ill.*: 7 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '167' [unknown]; *v* 'The flower pale blue capsule pale green calyx dark & leaves above grass green w^{t} pale veins below much whiter w^{t} dark green veins stalks pale green.' [SP]; 'Viola enneasperma' [unknown]; [ink] 'Endeavours River' [JB]. 365×270/290.

FINISHED DRAWING: watercolours *r* [pencil] 'where 1 flower' [?] 'blunt' 'too long & to be blunt' [DM[?]]; [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 545×365/290.

Copper plate: [DM]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 26/645. 460×295/290; engraving proof *r* [pencil] 'Viola enneasperma' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 8; col. engraving 1980 *BF*: pl. 9.

Notes: the pencil annotations on the finished drawing are correction notes for what appears to be an inaccurate drawing. These corrections have been incorporated into the engraving.

A1/11 **Hybanthus enneaspermus** (Linnaeus) F. Mueller, *Fragm.* **10**: 81 (1876).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 112 'Viola paradoxa'; [no description in Britten].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '166' [unknown] 'longer' [unknown]; *v* 'The small petala dirty white the large one ting'd w^t blue purple the calyx & peduncle green purple capsula very dark purple leaves yellow green above & glaucous below.' [SP]; '99' [unknown]; 'Viola paradoxa' [unknown]; [ink] 'Bustard Bay' [JB]. 370×270/165.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder pinx^t 1782'. 545×365/215.

Copper plate: [DM, '1782']; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 28/701. 460×295/215; [no engraving proof]; lithograph, proof before letters; [not in Britten]; col. engraving 1980 *BF*: pl. 10.

A1/12 **Hybanthus monopetalus** (Roemer & Schultes) Domin, *Biblthca bot.* **89**: 984 (1928).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 3–4, 9 'Viola monopetala'; Britten, J. 1900 *Ill.*: 7 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '165' [unknown]; *v* 'the base of the petal green, then white next a fine ultramarine blue rather light veind w^t dark purple the stalks & leaves [[fresh]] grass green.' [SP]; '31' [unknown]; 'Viola monopetala' [unknown]; [ink] 'Botany Bay' [JB]. 365×275/215.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder, pinx^t 1782'. 545×370/240.

Copper plate: [DM, '1782']; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 28/702. 460×295/370; [no engraving proof]; lithograph Britten, J. 1900 *Ill.*: pl. 9; col. engraving 1980 *BF*: pl. 11.

COCHLOSPERMACEAE

A1/13 **Cochlospermum gillivraei** Bentham, *Fl. austral.* **1**: 106 (1863).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 305–306, 441 'Argemonoides ricinifolia'; Britten, J. 1900 *Ill.*: 8 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '78'[?] [unknown]; *v* 'The petala & stile pale yellow stamina scarlet anthera gold colour calyx green yellow ting'd & freckled w^{t} red, the buds & stalks the same more or less green for their age the old stalk green red.' [SP]; 'Argemonoides ricinifolia' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/345.

Finished drawing: watercolours *r* [pencil] 'The serratures are small, sharp and more distant' [GS[?]]; [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 545×365/355; see Carr, D.J. [Ed.] 1983 pl. 124 p. 133.

Copper plate: [GS]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 20/484. 460×295/355; engraving proof *r* [pencil] 'Argemonoides ricinifolia' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 10; col. engraving 1980 *BF*: pl. 12.

PITTOSPORACEAE

A1/14 **Pittosporum ferrugineum** W.T. Aiton, *Hortus kew. ed. 2*, **2**: 27 (1811).

Specimen: 3 sheets, 1 – Bustard Bay, 2 – Islands near Cape Fear, 3 – Palm Island.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 120–121, **2**: 242–243 'Diervilloides cymosa, Diervilloides insularis'; Britten, J. 1900 *Ill.*: 8 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '17' [unknown]; *v* 'The flowers white the leaves grass green w^{t} hollow veins & the underside much paler w^{t} prominent veins the fruit green leaves brown' [SP]; 'Diervilloides axelloides cf. Pittosporum' [unknown]; '164' [unknown]; [ink] 'Palm Island' [JB]. 475×290/360.

Finished drawing: watercolours *r* [ink] 'Jn^{o} Cleveley Jun^{r} Pinct 1774'; *v* [pencil]. Diervilloides axelloides' [unknown]. 535×350/365.

Copper plate: [CW]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 13/306. 460×295/360; engraving proof *r* [ink] 'White'; lithograph Britten, J. 1900 *Ill.*: pl. 11; col. engraving 1980 *BF*: pl. 13.

Notes: as suggested to us [*in litt.*] by D. McGillivray, the original Solander manuscript appears as the two indicated names, in the text, in the original index and in the transcribed copy of the original Ms. The name 'Diervilloides axelloides' appears for the first time on the sketch and was perhaps only a provisional 'provisional' name.

POLYGALACEAE

A1/15 **Salomonia oblongifolia** de Candolle, *Prodr.* **1**: 334 (1824).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 274–275 'Polygaloides monandra'; Solander, D. Slip Catalogue **XIV**: 287–291; Britten, J. 1900 *Ill.*: 8 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '2' [unknown]; *v* 'Polygala monandra' [unknown]; [ink] 'Botanists Bay' [JB]. 365×255/220.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773.'; 'Polygala monandra' [unknown]. 540×365/240.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 7/175. 460×300/240; engraving proof *r* [pencil] 'Polygala monandra' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 12; col. engraving 1980 *BF*: pl. 14.

A1/16 **POLYGALA LONGIFOLIA** Poiret in Lamarck, *Encycl.* **5**: 501 (1804).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 279–280 'Polygala juncea'; Britten, J. 1900 *Ill.*: 9 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '60' [unknown]; *v* 'Polygala juncea' [unknown]; '395' [unknown]; [ink] 'Endeavours River.' [JB]. 470×295/380.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1778'. 545×365/415.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 21/515. 460×295/415; engraving proof *r* [pencil] 'Polygala juncea' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 13; col. engraving 1980 *BF*: pl. 15.

A1/17 **POLYGALA RHINANTHOIDES** Banks & Solander ex Bentham, *Fl. austral.* **1**: 140 (1863).

SPECIMEN: Endeavour River (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 481–482 'Polygala rhinanthoides'; Britten, J. 1900 *Ill.*: 9 *pro descr.*; 1973 *CF*: pl. 24 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '31 [?]' [unknown]; *v* 'The edge of the petala brigh violet colour turning into white towards the bottom.' [SP]; 'Polygala rhinanthoides' [unknown]; '391' [unknown]; [ink] 'Endeavours River.' [JB]. 475×295/335.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 545×365/350.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 22/548. 460×295/350; engraving proof *r* [pencil] 'Polygala rhinanthoides' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 14; engraving 1973 *CF*: pl. 24; col. engraving 1980 *BF*: pl. 16.

A1/18 **POLYGALA LINARIIFOLIA** Willdenow, *Sp. pl. ed. 4*, **2**: 877 (1802).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 427–428 'Polygala divaricata'; Britten, J. 1900 *Ill.*: 9 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '34' [unknown]; '141' [unknown]; *v* 'Polygala divaricata' [unknown]; [ink] 'Endeavours River' [JB]. 370×270/190.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore, Nodder, Pinx^{t} 1778'. 545×365/300.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 21/516. 460×300/295; engraving proof *r* [pencil] 'Polygala divaricata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 15; col. engraving 1980 *BF*: pl. 17.

A1/19 **COMESPERMA SECUNDUM** Banks & Solander ex de Candolle, *Prodr.* **1**: 334 (1824).

SPECIMEN: Endeavour River (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 319–320 'Octanthera secunda'; Britten, J. 1900 *Ill.*: 9 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'Capsula Redish Purple' [SP]; '63' [?] [unknown]; *v* 'Petala & buds white anthera yellow' [SP]; 'Octandra secunda' [unknown]; '306' [unknown]; [ink] 'Endeavours River.' [JB]. 475×290/415.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, Pinx^{t} 1778'. 545×350/425.

COPPER PLATE: [GS, '1782']; Bacstrom, S. Ms.: 110; Brown, R. Ms.: 29/727. 465×300/425; [no engraving proof]; lithograph Britten, J. 1900 *Ill.*: pl. 16; col. engraving 1980 *BF*: pl. 18.

A1/20 **COMESPERMA ERICINUM** de Candolle, *Prodr.* **1**: 334 (1824).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 20–21 'Octanthera limodoroides'; Britten, J. 1900 *Ill.*: 10 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '62' [unknown]; 'bright purple' 'greenish yellow' 'purple' 'white' [SP]; *v* 'The Calyx grey purple peduncli purple. the leaves a dark grass green the stalks & underside much lighter.' [SP]; 'Octandra limodoroides' [unknown]; '19' [unknown]; [ink] 'Botany Bay' [JB]. 465×295/360.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore, Nodder. Pinx^{t} 1778'. 540×360/365.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 110; Brown, R. Ms.: 21/524. 460×295/360; engraving proof *r* [pencil] 'Octanthera limodoroides'; [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 17; col. engraving 1980 *BF*: pl. 19.

PORTULACACEAE

A1/20a **PORTULACA BICOLOR** F. Mueller, *Fragm.* **1**: 171 (1858).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 300 'Portulaca serpyllifolia'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves & stalks deep red. The leaves ting'd w^{t} green. the capsula red' [SP]; 'Portulacca serpyllifolia' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/85.

[Not in Bacstrom].

A1/21 **CALANDRINIA** undescribed species.
Calandrinia quadrivalvis F. Mueller, *Fragm.* **1**: 176 (1858) *pro parte.*

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 290–291 'Arenarioides dodecandra'; Britten, J. 1900 *Ill.*: 10 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '35' [unknown]; *v* 'Arenareoides dodecandra' [unknown]; 'The flowers pale purple turning lighter toward the base the leaves buds & stalk a tender green.' [SP]; '378' [unknown]; [ink] 'Endeavours River' [JB]. 470×290/410.

FINISHED DRAWING: watercolours *r* [pencil] 'sharp' [?] [unknown]; [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777.'. 530×365/425.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 20/482. 460×300/420; engraving proof *r* [pencil] 'Arenariodes dodecandra' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 18; col. engraving 1980 *BF*: pl. 20.

A1/22 **CALANDRINIA CALYPTRATA** J. Hooker, *Icon. pl.* **3** (2): t. 296 (1840).

SPECIMEN: Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 123–124 'Sedoides tetandra'; [no description in Britten].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '46' [unknown]; *v* 'Calandrinia calyptrata' [unknown]; 'Sedoides 4andr' [unknown]; 'The flowers pale purple the leaves gray green stain'd w^{t} purple.' [SP]; '104' [unknown]; [ink] 'Botany Bay' [JB]. 370×270/70.

FINISHED DRAWING: watercolours *v* [pencil] 'Sedoides tetrandra' [unknown]; 'Botany Bay' [unknown]. 540×365/65.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 7/152. 460×295/70; engraving proof *r* [pencil] 'Sedoides tetrandra' [unknown]; [not in Britten]; col. engraving 1980 *BF*: pl. 21.

MALVACEAE

A1/23 **ABUTILON ALBESCENS** Miquel, *Pl. jungh.*: 285 (1854).

SPECIMEN: 3 sheets, Bustard Bay, Bay of Inlets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 127–128, **4**: 602–603 'Sida multicapsularis [?]'; Britten, J. 1900 *Ill.*: 10 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '51' [unknown]; *v* 'The flowers orange G. & a little V. stile and stamina yellow' [SP]; 'Sida multicapsularis' [unknown]; '3' [unknown]; '146' [unknown]; [ink] 'Bustard Bay' [JB]. 465×295/220.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 540×365/345; see Carr, D. J. [Ed.] 1983 pl. 125 p. 134.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 22/547. 460×295/345; engraving proof *r* [pencil] 'Sida multicapsularis' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 19; col. engraving 1980 *BF*: pl. 22.

A1/24 **Hibiscus meraukensis** Hochreutiner, *Annu. Cons. Jard. bot. Genève* **8**: 11 (1908).

Specimen: 2 sheets, Palm Island, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 160 'Hibiscus scabrosus'; Britten, J. 1900 *Ill.*: 10 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* 'The flower white w^t a cast of citross colour at the bottom of each petala deep crimson on the outside pale the stamina and stile [?] dark red purple the parts mark x are stain'd w^t carmine' [SP] [see left hand flower on recto]; 'Hibiscus scabrosus' [unknown]; [ink] 'Cape Grafton' [JB]. 540×365/380.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder, Pinx^t 1778'. 540×370/420; see Beaglehole, J. C. 1962 **2**: pl. iv col. pl.; Carr, D. J. [Ed.] 1983 pl. 126 p. 136.

Copper plate: [GS]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 24/578. 460×300/420; engraving proof *r* [pencil] 'Hibiscus scabrosus' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 20; col. engraving 1980 *BF*: pl. 23.

A1/25 **Hibiscus normanii** F. Mueller, *Fragm.* **3**: 4 (1862).

Specimen: 2 sheets, Cape Grafton, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 260 'Hibiscus variabilis'; Britten, J. 1900 *Ill.*: 11 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '52' [unknown]; *v* 'The petala cream colour spotted at the base w^t dark red purple stamina the same anthera pale yellow stiles white stigma dark purple.' [SP]; 'Hibiscus variabilis' [unknown]; 'R' [unknown]; '178' [unknown]; [ink] 'Cape Grafton' [JB]. 500×300/305.

Finished drawing: watercolours *r* [pencil] 'more stella' 'stellate' [?] [unknown]; [ink] 'Fred^k Polydore, Nodder, Pinx^t 1778'. 540×365/305.

Copper plate: [DM]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 20/495. 460×300/310; engraving proof *r* [pencil] 'Hibiscus variabilis' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 21; col. engraving 1980 *BF*: pl. 24.

Notes: the hairs on the drawings have been omitted by the engraver.

STERCULIACEAE

A1/26 **Abroma fastuosa** R. Brown in de Candolle, *Prodr.* **1**: 485 (1824).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 313–314 'Ayenioides fruticosa'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '33' [unknown]; *v* 'The calyx, buds & capsula bright pale green the upper side of the leaves grass green w^t pale prominent nerves & hollow veins the underside pale grey green w^t pale prominent veins.' [SP]; 'Ayenioides fruticosa' [unknown]; 'Theobroma augusta' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/410. [Not in Bacstrom].

A1/27 **COMMERSONIA BARTRAMIA** (Linnaeus) Merrill, *Interpr. Herb. amboin.*: 362 (1917).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 381–383 'Buttnerioides arborea'; Britten, J. 1900 *Ill.*: 11 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '37 [?]' [unknown]; *v* 'Flower white leaves above grass green faintly vein'd w^{t} lighter below Glaucous + white w^{t} prominent & light yellow green veins. stalks light green ting'd w^{t} brown.' [SP]; 'Butnerioides arborea' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/405.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt: 1774.'; *v* [pencil] 'Butnerioides arborea' [unknown]; 'Endeavours River' [unknown]. 535×355/410.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 13/312. 465×300/415; engraving proof *r* [ink] 'Goldar'; lithograph Britten, J. 1900 *Ill.*: pl. 22; col. engraving 1980 *BF*: pl. 25.

TILIACEAE

A1/28 **TRIUMFETTA REPENS** (Blume) Merrill & Rolfe, *Philipp. J. Sci.* **3**: 111 (1908).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 555–557, 'Triumfetta Subpalmata'; Britten, J. 1900 *Ill.*: 11 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '64' [unknown]; *v* 'Triumfetta subpalmata' [unknown]; [ink] 'Endeavours River' [JB]. 270×360/120.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777'; *v* [pencil] 'Endeavours River' [unknown]. 365×540/185.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 19/455. 300×458/185; engraving proof *r* [pencil] 'Triumfetta subpalmata' [unknown]; lithograph Britten, J. 1900. *Ill.*: pl. 23; col. engraving 1980 *BF*: pl. 26.

A1/29 **GREWIA LATIFOLIA** F. Mueller ex Bentham, *Fl. austral.* **1**: 271 (1863).

SPECIMEN: Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 121–122 'Grewia corylifolia'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '75' [unknown] *v* 'The flowers & buds greenish white young fruit dark green the old fruit stain'd w^{t} purple' [SP]; 'Grewia corylifolia' [unknown]; '111' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×295/355.
[Not in Bacstrom].

ZYGOPHYLLACEAE

A1/30 **TRIBULUS SOLANDRI** (R. Brown) F. Mueller, *Pl. Victoria* **1**: 99 (1862).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 289–290 'Tribulus minor'; Britten, J. 1900 *Ill*: 11 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The petala & stamina yellow.' [SP]; 'Tribulus minor' [unknown]; '393' [unknown]; [ink] 'Endeavours River' [JB]. 465×275/415.

FINISHED DRAWING: watercolours. 540×365/415.
Bacstrom, S. Ms: 70; lithograph [RM]; Britten, J. 1900 *Ill*: pl. 24.

NOTES: a lithograph stone was drawn by Robert Morgan for Britten as there was no copper plate.

A1/31 **TRIBULUS CISTOIDES** Linnaeus, *Sp. pl.* **1**: 387 (1753).

SPECIMEN: Bay of Inlets, Palm Island.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 164 'Tribulus australis'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Tribulus australis' [unknown]; 'The flower bright yellow & also the stamina the stile pale green the leaves a blue grass green the underside of the leaves cover'd with silvery hair stalk stain'd w^{t} purple.' [SP]; '129' [unknown]; [ink] 'Thirsty Sound' [JB]. 365×260/300.

FINISHED DRAWING: watercolours *v* [pencil] 'Thirsty Sound' [unknown]. 540×365/285.
Bacstrom, S. Ms: 70.

RUTACEAE

A1/32 **ZIERIA PILOSA** Rudge, *Trans. Linn. Soc. Lond.* **10**: 293, t. 17, f. 2 (1811).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 24–25 'Rutoides tetrandra'; Britten, J. 1900 *Ill.*: 12 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers are made too large The petala white.' [SP]; 'Rutoides 4andra' [unknown]; '13' [unknown]; [ink] 'Botany Bay' [JB]. 370×270/320.

FINISHED DRAWING: watercolours *r* [ink] 'J: F. Miller pinx^{t}. 1774.'; [pencil] 'Zieria' [Sm.]; *v* 'Rutoides tetrandra' [unknown]; 'Botany Bay.' [unknown]. 535×365/385.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 9/203. 460×295/385; engraving proof *r* [pencil] 'Ruthoides tetrandra' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 25; col. engraving 1980 *BF*: pl. 27.

A1/33 **Boronia alulata** Banks & Solander ex Bentham, *Fl. austral.* **1**:313 (1863).

Specimen: 2 sheets, Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**:343–344 'Gauroides alulata'; Britten, J. 1900 *Ill.*: 12 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala pale carmine w^t a vein up the middle deeper, calyx red + green' [SP]; 'Gauroides alutata' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/240.

Finished drawing: watercolours *r* [ink] 'James Miller pinxt. 1775.'; *v* [pencil] 'Gauroides alulata' [unknown]; 'Endeavours River' [unknown]. 535×365/260.

Copper plate: [EW]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 12/281. 465×300/255; engraving proof *r* [pencil] 'Guaroides alulata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 26; col. engraving 1980 *BF*: pl. 28.

A1/34 **Boronia pinnata** Smith, *Tracts Nat. Hist.*: 290 (1798).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 20 [index entry only, no description] 'Gauroides pinnata'; Britten, J. 1900 *Ill.*: 12 'There is no description of this, either in the rough copy or in the transcription of the MSS., and the only specimen from Banks in the Herbarium is a small one, in bud only, from Botany Bay. This has been combined by the artist with the original sketch (which shows only a few-flowered terminal inflorescence) with not very satisfactory results.'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers pale crimson.' [SP]; 'Gauroides pinnata' [unknown]; '57' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/305.

Finished drawing: watercolours *r* [ink] 'James. Miller pinxt. 1775.'; [pencil] 'Boronia pinnata Smith' [Sm.]; *v* 'Gauroides [?] pinnata' [unknown]; 'Botany Bay' [unknown]. 495×335/310.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 12/28. 460×300/310; engraving proof *r* [pencil] 'Gauroides pinnata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 27; col. engraving 1980 *BF*: pl. 29.

A1/35 **Boronia parviflora** Smith, *Tracts Nat. Hist.*: 295, t. 6 (1798).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 3, 101 'Gauroides purpurea'; Britten, J. 1900 *Ill.*: 12 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower pale purple the calyx dirty purple. the leaves a grass green somewhat glaucous. the petala stain'd w^t red.' [SP]; 'Gauroides purpurea' [unknown]; '56' [unknown]; [ink] 'Botany Bay' [JB]. 365×255/290.

Finished drawing: watercolours *r* [ink] 'John Cleveley Jun^r Pinxt: 1775.'; *v* 'Gauroides purpurea' [unknown]. 475×325/265.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 10/237. 460×300/260; engraving proof *r* [pencil] 'Gauroides purpurea.' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 28; col. engraving 1980 *BF*: pl. 30.

A1/36 **ERIOSTEMON AUSTRALASIUS** Persoon subsp. BANKSII (A. Cunningham ex Endlicher) P.G. Wilson, *Nuytsia* **1**(1): 24 (1970).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 285–286 'Rutoides citrina'; Britten, J. 1900 *Ill.*: 13 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Rutoides citrina' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/345.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder, Pinx^{t}. 1779'; [pencil] 'a short footstalk to every Leaf' [unknown]. 540×365/315; see Carr, D.J. [Ed.] 1983 pl. 127 p. 138.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 25/610. 460×300/315; engraving proof *r* [pencil] 'Rutoides citrina' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 29; col. engraving 1980 *BF*: pl. 31.

A1/37 **ERIOSTEMON BUXIFOLIUS** Smith in Rees, *Cycl.* **13**: *Eriostemon* n. 2 (1809).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 10, 67 'Rutoides verruculosa'; Britten, J. 1900 *Ill.*: 13 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '91' [unknown]; 'Very Pail' [unknown]; *v* 'The flowers pale blush colour. the buds much deeper. the anthera orange.' [SP]; 'Rutoides verruculosa' [unknown]; '34' [unknown]; [ink] 'Botany Bay' [JB]. 366×260/305.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1779'; [pencil] 'not so many, nor so strong' [unknown]; 'Eriostemon' [Sm.]. 535×365/320.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 25/609. 465×300/320; engraving proof *r* [pencil] 'Rutoides verruculosa' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 30; col. engraving 1980 *BF*: pl. 32.

A1/38 **PHILOTHECA SALSOLIFOLIA** (Smith) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*: 639 (1917).

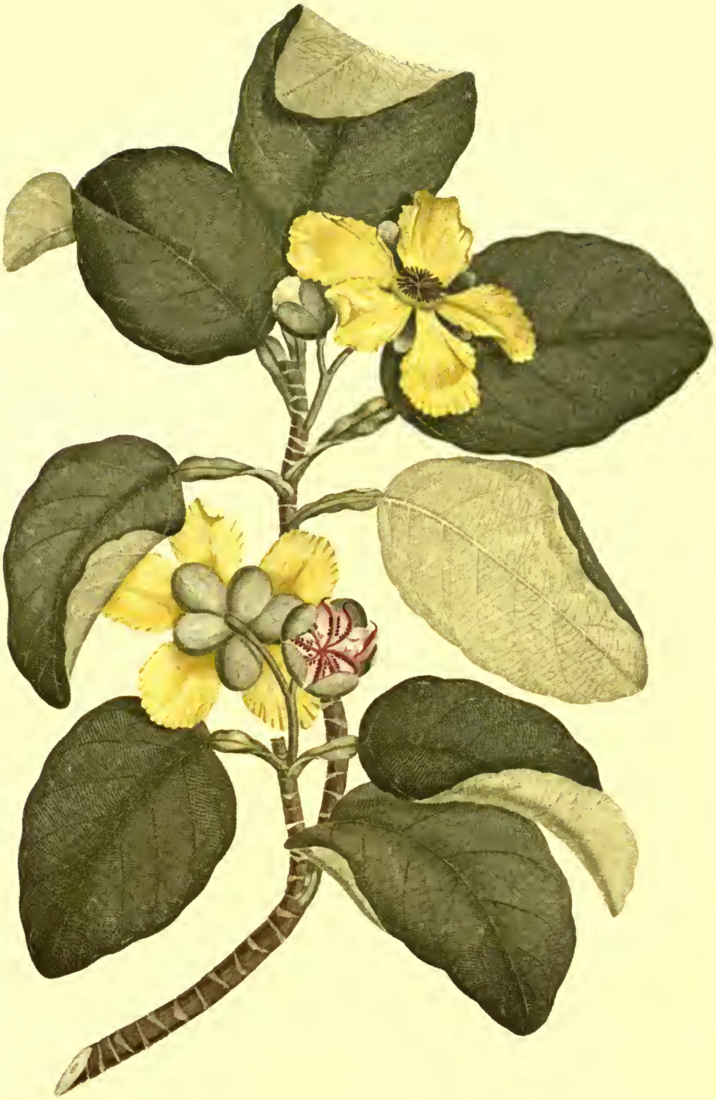
SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 63–64 'Melioides quinquecapsularis'; Britten, J. 1900. *Ill.*: 13 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers a purple crimson or pompadour colour stamina white very hairy leaves dark green stalk rusty brown. the capsula green.' [SP]; '59' [unknown]; 'Melioides quinquecapsularis' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/240.

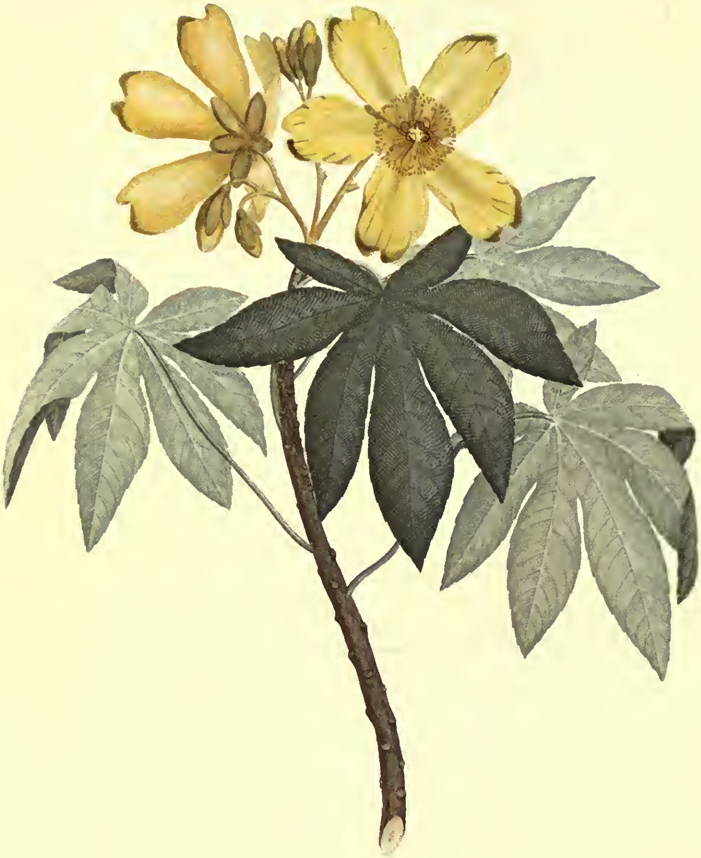
FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1779'; [pencil] 'Eriostemon' [Sm.]; 'green spores From [?]' [unknown]. 540×365/240.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 25/608. 460×300/240; engraving proof *r* [pencil] 'Melioides quinquecapsularis' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 31; col. engraving 1980 *BF*: pl. 33.



A1/1 *Dillenia alata*

[Plate 1 from *Banks' Florilegium*]
gathered Endeavour River, Australia, 17 June–4 August 1770
line engraving by G. Sibelius after Sydney Parkinson (1770) & F. P. Nodder (177
460 × 300 mm



A1/13 *Cochlospermum gillivraei*

[Plate 12 from *Banks' Florilegium*]
gathered Endeavour River, Australia, 17 June–4 August 1770
line engraving by G. Sibelius after Sydney Parkinson (1770) & F. P. Nodder (1778)
460 × 300 mm

A1/39 **Correa alba** Andrews, *Bot. repos.* **I**: t. 18 (1798) var. ALBA.

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **I**: 2–3 'Jambolifera alba'; Britten, J. 1900 *Ill.*: 13 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white the stamina before blown Fawn colour after yellow.' [SP]; 'Jambolifera alba' [unknown]; '69' [unknown]; [ink] 'Botany Bay' [JB]. 465×275/350.

Finished drawing: watercolours *r* [ink] 'James. Miller pinxt. 1775'; *v* [pencil] 'Jambolifera alba' [unknown]; 'Botany Bay.' [unknown]. 490×325/340.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 11/272. 465×300/340; engraving proof *r* [pencil] 'Jambolifera alba' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 32; col. engraving 1980 *BF*: pl. 34.

A1/40 **Correa reflexa** (Labillardière) Ventenat, *Jard. Malm.* **I**: sub t. 13 (1803) var. REFLEXA.

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **I**: 2 'Jambolifera revoluta'; Britten, J. 1900 *Ill.*: 14 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; '24' [unknown] *v* [pencil] 'The flower a delicate carmine fading into a fine pale green stamina pale green anthera yellow.' [SP]; 'Jambolifera revoluta' [unknown]; '69' [unknown]; [ink] 'Botany Bay' [JB]. 460×280/335; see Carr, D.J. [Ed.] 1983 pl. 128 p. 140.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1775'; *v* [pencil] 'Jambolifera revoluta' [unknown]. 500×340/355.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 11/271. 465×295/355; engraving proof *r* [pencil] 'Jambolifera revoluta' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 33; col. engraving 1980 *BF*: pl. 35.

A1/41 **Correa reflexa** (Labillardière) Ventenat, *Jard. Malm.* **I**: sub t. 13 (1803) var. REFLEXA.

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **I**: 1–2 'Jambolifera rubicunda'; Britten, J. 1900 *Ill.*: 14 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower the same colour as the other species but paler the leaves are also of same colour the stalk not quite round.' [SP]; 'Jambolifera rubicund' [unknown]; '63' [unknown]; [ink] 'Botany Bay' [JB]. 460×275/360.

Finished drawing: watercolours *r* [ink] 'Jn^{o}: Cleveley Jun^{r} Pinxt. 1775.'; *v* [pencil] 'Jambolifera rubicunda' [unknown]. 500×335/370.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 13/325. 460×295/365; engraving proof *r* [pencil] 'Jambolifera rubicunda' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 34; col. engraving 1980 *BF*: pl. 36.

A1/42 **Acronychia laevis** Forster & G. Forster, *Char. gen. pl.*: t. 27 (1775).

Specimen: Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 170–172 ‘Rutoides emarginata’; Britten, J. 1900 *Ill.*: 14 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘29’ [unknown]; ‘a ring of [?]’ [SP]; *v* [pencil] ‘The flowers & fruit greenish white the stalks a sordid whitish brown.’ [SP]; ‘3’ [unknown]; ‘Rutoides emarginata’ [unknown]; ‘147’ [unknown]; [ink] ‘Thirsty Sound.’ [JB]. 465×295/360.

Finished drawing: watercolours *r* [pencil] ‘Calyx obtuse’ [unknown]; [ink] ‘Fred^{k}. Polydore Nodder, Pinx^{t}. 1779.’. 535×365/380.

Copper plate: [GS]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 23/575. 460×300/380; engraving proof *r* [pencil] ‘Rutoides emarginata’ [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 35; col. engraving 1980 *BF*: pl. 37.

A1/43 **Micromelum minutum** (G. Forster) Wight & Arnott, *Prodr.*: 448, 468 (1834).

Specimen: Bay of Inlets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 163–164 ‘Guaiacoides cymosa’; Britten, J. 1900 *Ill.*: 14 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The flowers stamina & stile greenish white buds and small stalks. pale green the leaves & stalks [?] dark grass green the leaves below considerably paler & somewhat grey. the fruit dark green a little downy.’ [SP]; ‘Guaiacoides cymosa’ [unknown]; ‘3’ [unknown]; ‘161’ [unknown]; [ink] ‘Thirsty Sound.’ [JB]. 540×365/375.

Finished drawing: watercolours *r* [ink] ‘Fred^{k}. Polydore Nodder. Pinx^{t}. 1779’. 540×365/415.

Copper plate: [GS]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 25/611. 460×295/410; engraving proof *r* [pencil] ‘Guajacoides cymosa’ [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 36; col. engraving 1980 *BF*: pl. 38.

SURIANACEAE

A1/44 **Suriana maritima** Linnaeus, *Sp. pl.* **1**: 284 (1753).

Specimen: Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 591–592 ‘Suriana maritima Linn.’.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘Petala pale yellow, stamina pale citron.’ [SP]; ‘Suriana maritima’ [unknown]; ‘LI.’ [unknown]; [ink] ‘Lizzard Island’ [JB]. 365×250/285.
Bacstrom, S. Ms.: 78.

MELIACEAE

A1/45 **Synoum glandulosum** (Smith) A.H.L. de Jussieu, *Mém. Mus. Hist. nat. Paris* **19**: 227, t. 4, no. 10 (pl. 15) (1830).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 23–24 'Trichilia octandra'; Britten, J. 1900 *Ill.*: 15 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '30' [unknown]; *v* 'flower white the buds ting'd w^t crimson on the top the calyx greenish brown. the stalk red brown the fruit green ting'd w^t red.' [SP]; '21' [unknown]; 'Trichilia octandra' [unknown]; [ink] 'Botany Bay' [JB]. 465×285/365.

Finished drawing: watercolours *r* [ink] 'Fred^k. Polydore Nodder. Pinx^t. 1777.'; [pencil] 'Trichilia octandra' [unknown]; *v* 'Botany Bay' [unknown]. 540×365/385.

Copper plate: [DM]; Bacstrom, S. Ms.: 70. Brown, R. Ms.: 19/451. 460×295/385; engraving proof *r* [pencil] 'Trichilia octandra' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 37; col. engraving 1980 *BF*: pl. 39.

A1/46 **Xylocarpus granatum** Koenig, *Naturforscher, Halle* **20**: 2 (1784).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 225 'Trichilia laurifolia'; Britten, J. 1900 *Ill.*: 15 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '31' [unknown]; 'as this' [SP]; *v* 'Flowers white the leaves vivid grass green w^t pale veins below pale green w^t dark green veins' [SP]; 'P' [SP] [?]; 'Trichilia laurifolia' [unknown]; '171' [unknown]; [ink] 'Endeavours River' [JB]. 460×295/385.

Finished drawing: watercolours *r* [ink] 'Fred^k. Polydore Nodder, Pinx^t. 1779'. 535×365/400.

Copper plate: [GS]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 22/537. 460×300/395; engraving proof *r* [pencil] 'Trichilia laurifolia' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 38; col. engraving 1980 *BF*: pl. 40.

STACKHOUSIACEAE

A1/47 **Stackhousia viminea** Smith in Rees, *Cycl.* **33**: *Stackhousia* n. 1 (1816) *sensu lato*.

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 39–40 'Sarothroides stellulata'; Britten, J. 1900 *Ill.*: 15 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower a greenish yellow the tube stain'd w^t red. the stalks grass green.' [SP]; 'Sarothroides stellata' [unknown]; '45' [unknown]; [ink] 'Botany Bay' [JB]. 360×245/275.

Finished drawing: watercolours *r* [pencil] 'Stackhousia viminea' [Sm.]; *v* 'Sarothroides Stellata' [unknown]; 'Botany Bay' [unknown]. 540×365/315.

Copper plate: [DM]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 11/257. 460×300/310; engraving proof *r* [pencil] 'Sarotroides stellata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 39; col. engraving 1980 *BF*: pl. 41.

A1/48 Stackhousia monogyna Labillardière, *Nov. Holl. pl.* **1**: 77, t. 104 *pro parte* (1805).

Specimen: Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 117 'Samoloides trigyna'; Britten, J. 1900 *Ill.*: 15 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '62' [unknown]; *v* 'The flowers white the upper side of the leaves pea green. the underside more Glaucous' [SP]; 'Samoloides trigyna' [unknown]; '123' [unknown]; [ink] 'Bustard Bay' [JB]. 370×265/235.

Finished drawing: watercolours *r* [ink] 'Jn:° Cleveley Jun^{r} Pinct. 1774'; *v* [pencil] 'Samoloides trigyna' [unknown]. 525×345/255.

Copper plate: [GS]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 11/256. 460×295/255; engraving proof *r* [pencil] 'Samoloides trigyna' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 40; col. engraving 1980 *BF*: pl. 42.

RHAMNACEAE

A1/49 Cryptandra amara Smith in Rees, *Cycl.* **10**: *Cryptandra* n. 2 (1808).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 72–73 'Diapensioides calyptrata'; Britten, J. 1900 *Ill.*: 16 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower white calyx [[red]] orange brown. leaves grass green. stalk dark brown.' [SP]; 'Diapensoides calyptrata' [unknown]; '39' [unknown]; [ink] 'Botany Bay' [JB]. 370×260/295.

Finished drawing: watercolours *r* [ink] 'James. Miller Pinxt.'; *v* [pencil] 'Diapensoides calyptrata' [unknown]; 'Botany Bay' [unknown]. 530×345/305.

Copper plate: [CW]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/247. 460×300/300; engraving proof *r* [pencil] 'Diapensoides calyptrata' [unknown]; lithograph Britten, J. 1900. *Ill.*: pl. 41; col. engraving 1980 *BF*: pl. 43.

LEEACEAE

A1/50 Leea indica (Burman f.) Merrill, *Philipp J. Sci.* **14**: 245 (1919).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 273 'Araliastrum sambucoides'; Solander, D. Slip Catalogue **vi**: 685–696; Britten, J. 1900. *Ill.*: 16 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower white buds ting'd w^{t} green' [SP]; 'Araliastrum Sambucoides' [unknown]; [ink] 'Endeavours River' [JB]. 550×335/430.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}.. 1774.'; *v* [pencil] 'Araliastrum sambucoides' [unknown]; 'N.H.' [unknown]. 540×375/475.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 13/308. 460×300/440; engraving proof; lithograph Britten, J. 1900 *Ill.*: pl. 41A; col. engraving 1980 *BF*: pl. 44.

SAPINDACEAE

A1/51 DODONAEA POLYANDRA Merrill & Perry, *J. Arnold Arbor.* **21**: 525 (1940).

SPECIMEN: New South Wales.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 486–487, 616–617 'Dodonaea procumbens'; Britten, J. 1900 *Ill.*: 16 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '50'[?] [unknown]; '169' [unknown]; *v* 'Dodonea procumbens' [unknown]; 'PF' [unknown]; [ink] 'Cape Grafton.' [JB]. 540×365/335.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller Pinx^{t}. 1775.'; *v* [pencil] 'Dodonea procumbens' [unknown]; 'C. Grafton.' [unknown]. 540×365/355.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 60; R. Brown Ms.: 11/269. 460×300/335; engraving proof *r* [pencil] 'Dodonaea procumbens' [unknown]; lithograph Britten, J. *Ill.* 1900: pl. 42; col. engraving 1980 *BF*: pl. 45.

A1/52 DODONAEA VESTITA Hooker in Mitchell, *J. exped. trop. Australia*: 265 (1848).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 378–379 'Dodonaeoides pinnata'; Britten, J. 1900 *Ill.*: 16 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Calyx green stain'd w^{t} red stamina pale yellow green stile dark red.' [SP]; 'Dodonaeoides pinnata' [unknown]; [ink] 'Endeavours River' [JB]. 360×265/265.

FINISHED DRAWING: watercolours *r* [ink] 'James. Miller pinxt. 1775.'; *v* [pencil] 'Dodonoides pinnata' [unknown]; 'Endeavours River' [unknown]. 540×360/285.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 66; Brown, R. Ms.: 17/415. 460×295/280; engraving proof *r* [pencil] 'Dodonaeoides pinnata' [unknown]; lithograph Britten, J. *Ill.* 1900: pl. 43; col. engraving 1981 *BF*: pl. 46.

A1/53 DISTICHOSTEMON HISPIDULUS (Endlicher) Baillon, *Hist. pl.* **5**: 411 (1874).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 349–350 'Dodonaeoides villosa'; Britten, J. 1900 *Ill.*: 17 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Dodonaeoides villosa' [unknown]; '303' [unknown]; [ink] 'Endeavours River' [JB]. 465×285/395.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinxt: 8th July 1775.'; *v* [pencil] 'Dodoneoides villosa' [unknown]. 535×360/380.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 66; Brown, R. Ms.: 18/426. 460×295/380; engraving proof *r* [pencil] 'Dodonaeoides villosa' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 44; col. engraving 1981 *BF*: pl. 47.

ANACARDIACEAE

A1/54 **BUCHANANIA ARBORESCENS** (Blume) Blume, *Mus. bot. Lugduno-Batavum* **1**: 183 (1850).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 538–539 'Spondioides alternifolia'; Britten, J. 1900 *Ill.*: 17 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower and buds white' [SP]; 'Spondioides alternifolia' [unknown]; [ink] 'Endeavours River.' [JB]. 540×365/390.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk Polydore Nodder. Pinxt 1779'. 540×365/435.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 22/538. 460×300/425; engraving proof *r* [pencil] 'Spondioides alternifolia' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 45; col. engraving 1981 *BF*: pl. 48.

BLEPHAROCARYACEAE

A1/55 **BLEPHAROCARYA INVOLUCRIGERA** F. Mueller, *Fragm.* **11**: 16 (1878).

SPECIMEN: 2 sheets, Endeavour River, Lizard Island.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 537–538 'Amyroides juglandifolia'; [no description in Britten].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'The flower greenish white' [SP]; *v* 'The flower greenish white anthera brown buds pale green.' [SP]; 'Amyroides juglandifolia' [unknown]; [ink] 'Endeavours River' [JB]. 540×355/395.

FINISHED DRAWING: watercolours *r* [ink] 'Jno: Cleveley Junr Pinxt. 1775.' *v* [pencil] 'Amyroides juglandifolia' [unknown]. 540×355/395.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 66; Brown, R. Ms.: 16/387. 460×300/395; engraving proof *r* [pencil] 'Mysoides juglandifolia' [unknown]; lithograph Britten, J. *Ill.* 1900: pl. 45A; col. engraving 1981 *BF*: pl. 49.

ANACARDIACEAE

A1/56 **PLEIOGYNIUM TIMORIENSE** (de Candolle) Leenhouts, *Blumea* **7**: 159 (1952).

SPECIMEN: Bustard Bay, Bay of Inlets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 159, **2**: 161 'Spondias acida'; Britten, J. 1900 *Ill.*: 17 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers greenish white anthera yellow the leaves grass green vein'd with paler the underside somewhat paler vein'd w^{t} darker the petiolae pale green the fruit before ripe are green stain'd w^{t} red when ripe the colour of a Damson.' [SP]; 'Spondias acida' [unknown]; '159' [unknown]; [ink] 'Thirsty Sound' [JB]. 540×365/405; see Carr, D.J. [Ed.] 1983 pl. 129 p. 141.

FINISHED DRAWING: watercolours *r* [pencil] 'Spondias acida' [unknown]. 540×365/425.
Bacstrom, S. Ms.: 76; lithograph [RM]; Britten, J. 1900 *Ill.*: pl. 46.

NOTES: a lithographic stone was drawn by Robert Morgan for Britten as there was no copper plate.

LEGUMINOSAE

A2/57 **OXYLOBIUM CORDIFOLIUM** Andrews, *Bot. repos.*: t. 492 (1807).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 87–88 'Sophoroides rubriflora'; Britten, J. 1900 *Ill.*: 17 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '85' [unknown]; *v* 'Sophoroides rubriflora' [unknown]; 'The corolla on the inside a deep orange the outerside dark red orange anthera yellow lacina calacyme dark purple fading into pink and that into green the carina especially at ye point dark red the stalks underside of the leaves covered wt small white hairs' [SP]; 'rubriflora' [unknown]; '65' [unknown]; [ink] 'Botany Bay' [JB]. 368×265/320.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'. 540×370/355.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 26/627. 465×305/350; [no engraving proof]; lithograph Britten, J. 1900 *Ill.*: pl. 47; col. engraving 1981 *BF*: pl. 50.

A2/58 **GOMPHOLOBIUM NITIDUM** Banks & Solander ex Bentham, *Fl. austral.* **2**: 48 (1864).

SPECIMEN: 2 sheets, Endeavour River, Point Lookout (syntype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 434–435 'Sophoroides microphylla'; Britten, J. 1900 *Ill.*: 18 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'yellow Lode' [?] [unknown]; *v* 'The inside of the vexillum & aloe yellow the outside of the vexillum and top of the carina olive the bottom of the carina and edge at the top white.' [SP]; 'Sophoroides microphylla' [unknown]; [ink] 'Endeavours River' [JB]. 368×265/275.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinxt^t 1779'; [pencil] 'a little longer' [unknown]. 540×360/320.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 25/606. 465×300/320; engraving proof *r* [pencil] 'Sophoroides macrophylla' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 48; col. engraving 1981 *BF*: pl. 51.

NOTES: the annotation on the finished drawing is a correction for the engraver. The engraving follows Parkinson's outline drawing.

A2/59 **JACKSONIA THESIOIDES** A. Cunningham ex Bentham, *Comm. legum. gen.*: 10 (1837).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 359–361 'Sophoroides triquetra'; Britten, J. 1900: *Ill.*: 18 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '87' [unknown]; *v* 'Sophoroides triquetra' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/270.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1779'; [pencil] 'Pedunculi shorter' [unknown]. 540×365/285.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 26/628. 465×300/285; engraving proof *r* [pencil] 'Sophoroides triquetra' [unknown]; 'D. Mackenzie'; lithograph Britten, J. 1900 *Ill.*: pl. 49; col. engraving 1981 *BF*: pl. 52.

A2/60 **AOTUS ERICOIDES** (Ventenat) G. Don, *Gen. hist.* **2**: 120 (1832).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 88–89 'Sophoroides cinerascens'; Britten, J. 1900 *Ill.*: 18 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '86' [unknown]; *v* 'The flowers yellow the strips at the bottom of the Vexillum dark Crimson below that pale green.' [SP]; '62' [unknown]; 'Sophoroides cinerascens' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/255.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1779'. 540×365/900.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 25/605. 460×300/300; engraving proof *r* [pencil] 'Sophoroides cinerascens' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 50; col. engraving 1981 *BF*: pl. 53.

A2/61 **BOSSIAEA HETEROPHYLLA** Ventenat, *Jard. Cels*: 7, t. 7 (1800).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**:85–87 'Genista speciosa'; Britten, J. 1900 *Ill.*: 18 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '129' [?] [unknown]; *v* 'Genista speciosa' [unknown]; 'The Vexillum & Aloe bright yellow the V. stain'd w^{t} red laev [?] and the bottom behind w^{t} red the Carina a dark red. turning paler toward the basel.' [SP]; '64' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/330.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777'. 540×365/400.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 21/517. 460×300/390; engraving proof *r* [pencil] 'Genista speciosa' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 51; col. engraving 1981 *BF*: pl. 54.

A2/62 CROTALARIA VERRUCOSA Linnaeus, *Sp. pl.* **2**:715 (1753).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:389–390 'Dolichos stipularis'; Britten, J. 1900 *Ill.*: 19 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'calyx 3 & 2 Split [?]' [unknown]; *v* 'The vexullum pale blue vein'd w^{t} deep blue the aloe the same but deeper w^{t} a cast of purple at the edge the carina white ting'd w^{t} green veins blue green the calyx pale green ting'd at the base w^{t} purple. the upper side of the leaves dull grass green w^{t} hollow veins, below, more glaucus w^{t} prominent veins. stalks bractea fresh green.' [SP]; 'Dolichos stipularis' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/385.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777'. 545×365/400; see Carr, D.J. [Ed.] 1983 pl. 130 p. 142.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 106; Brown R. Ms.: 19/466. 460×300/400; engraving proof *r* [pencil] 'Dolichos stipularis' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 52; col. engraving 1981 *BF*: pl. 55.

A2/63 CROTALARIA CALYCINA Schrank, *Pl. Rar. Horti Monac.* **1**:t. 12 (1817).

SPECIMEN: Bay of Inlets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**:197, **4**:501, 567 'Crotalaria [[Genistoides]] calyculata'; Britten, J. 1900 *Ill.*: 19 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '55' [unknown]; *v* 'The flower white. the base of the vexillum ting'd w^{t} yellow.' [SP]; 'Crotalaria' [unknown]; 'Genistoides calyculata' [unknown]; '389' [unknown]; [ink] 'Endeavours River' [JB]. 460×290/385.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777'. 545×360/400; see Beaglehole, J.C. 1962 **2**: pl. 24a.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 23/566. 460×300/395; engraving proof *r* [pencil] 'Genistoides calyculata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 53; col. engraving 1981 *BF*: pl. 56.

A2/64 **LOTUS AUSTRALIS** Andrews, *Bot. repos.* **10**: t. 624 (1811).

SPECIMEN: Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 36 [index entry only, no description] 'Lotus canescens'; Britten, J. 1900 *Ill.*: 19 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '133' [unknown]; *v* 'The Vexillum middling Crimson w^t a few purple stripes in the middle the aloe & buds of the same colour but much paler calyx & stalks pale green leaves a whitish green. legumen umber' [SP]; '135' [unknown]; '3' [unknown]; 'Lotus canescens' [unknown]; [ink] 'Thirsty Sound' [JB]. 365×265/260.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1777'. 540×360/280.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 23/567. 460×300/280; engraving proof *r* [pencil] 'Lotus canescens' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 54; col. engraving 1981 *BF*: pl. 57.

A2/65 **INDIGOFERA AUSTRALIS** Willdenow, *Sp. pl. ed. 4*, **3**: 1255 (1803).

SPECIMEN: Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 201–202 'Lotus [?] spicatus'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'NB. Not to be finish'd' [J. Dryander [?]]; *v* 'The flowers pale red purple the leaves grass green above & Glaucus below the Stalk & peduncli yellow green stain'd w^t red. the buds & calyx brown purple' [SP]; '142' [unknown]; '3' [unknown]; 'Lotus spicatus' [unknown]; [ink] 'Thirsty Sound.' [JB]. 460×290/260.
Bacstrom, S. Ms.: 108.

A2/66 **INDIGOFERA LINIFOLIA** (Linnaeus f.) Retzius, *Obs. Bot.* **4**: 29 (1786); **6**: 33, t. 2 (1798).

SPECIMEN: 2 sheets, Bay of Inlets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 178–179 'Trifoliastrum unifolium'; Britten, J. 1900 *Ill.*: 19 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower red the upperside of the leaves grass green the underside of the leaves stalks & calyx bluish gray green the fruit a whitish green' [SP]; 'Trifoliastrum unifolium' [unknown]; '130' [unknown]; '3' [unknown]; [ink] 'Thirsty Sound' [JB]. 365×265/300.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1778'. 545×360/325.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 110; Brown, R. Ms.: 22/549. 460×295/325; engraving proof *r* [pencil] 'Trifoliastrum unifolium' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 55; col. engraving 1981 *BF*: pl. 58.

A2/67 **INDIGOFERA TRIFOLIATA** Linnaeus, *Cent pl. II*: 29 (1756); *Amoen. Acad.* **4**: 337 (1759).

SPECIMEN: Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 36 [index entry only, no description] 'Lotus tetragonolobus'; Britten, J. 1900 *Ill.*: 20 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The vexillum cherry colour aloe deep scarlet carina green the vexillum above & buds ting'd w^t green' [SP]; 'Lotus tetr [?]' [unknown]; '160' [unknown]; [ink] 'Thirsty Sound' [JB]. 370×265/310.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1777'. 540×360/310.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 21/521. 460×300/305; engraving proof *r* [pencil] 'Lotus tetragonolobus' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 56; col. engraving 1981 *BF*: pl. 59.

A2/68 **INDIGOFERA COLUTEA** (Burman f.) Merrill, *Philipp. J. Sci.* **19**: 355 (1921).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 287–288 'Lotus divaricatus'; Britten, J. 1900 *Ill.*: 20 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Lotus divaricatus' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/250.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1777'. 540×360/270.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 21/522. 455×300/260; engraving proof *r* [pencil] 'Lotus divaricatus' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 57; col. engraving 1981 *BF*: pl. 60.

A2/69 **INDIGOFERA PRATENSIS** F. Mueller, *Essay Pl. Smith's Exped. Burdekin*: 10 (1860).

SPECIMEN: 2 sheets, Endeavour River, Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 471–472 'Clitoroides carnea'; Britten, J. 1900 *Ill.*: 20 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '143' [unknown]; *v* 'The vexillum pale crimson purple w^t some strips of white on the inside the aloe same colour but deeper carina same but very pale buds pale blue purple calyx very pale green. leaves grass green above w^t lightish veins below glaucous w^t small dark green veins. stalks yellow green' [SP]; '[Clitoroides carnea]' [unknown]; 'Clitoroides carnea' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/265.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1778'. 540×360/270.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 110; [not in Brown]. 465×300/270; [no engraving proof]; lithograph Britten, J. 1900 *Ill.*: pl. 58; col. engraving 1981 *BF*: pl. 61.

A2/70 **LAMPROLOBIUM FRUTICOSUM** Bentham, *Fl. austral.* **2**:202 (1864).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:414–415 'Crotalarioides fruticosa'; Britten, J. 1900 *Ill.*: 20 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The vex. & aloe buff colour car. pale green inside of the calyx pale dirty green' [SP]; 'Crotalarioides fruticosa' [unknown]; [ink] 'Endeavours River' [JB]. 545×355/355.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777'; [pencil] 'too strong [?]' 'aloe obtuse' 'fine line' [unknown]. 540×360/390.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 110; Brown, R. Ms.: 20/500. 460×295/390; engraving proof *r* [pencil] 'Crotalarioides fruticosa' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 59; col. engraving 1981 *BF*: pl. 62.

A2/71 **TEPHROSIA ASTRAGALOIDES** Bentham, *Fl. austral.* **2**:208 (1864).

SPECIMEN: Palm Island, Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**:234–236 'Hedysarum albiflorum'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower white the back of the vexillum ting'd wt green' [SP]; 'Hedysarum albiflorum' [unknown]; '163' [unknown]; 'P' [unknown]; [ink] 'Palm Island' [JB]. 370×265/295.
Bacstrom, S. Ms.: 108.

A2/72 **TEPHROSIA RETICULATA** Bentham, *Fl. austral.* **2**:205 (1864).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:435–436 'Galegoides glabrata'; Britten, J. 1900 *Ill.*: 21 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'Galegoides glabrata' [unknown]; *v* 'Galegoides glabrata' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/385.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777'; [pencil] 'no point' [unknown]. 545×360/400.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 18/434. 460×300/390; engraving proof *r* [pencil] 'Galegoides glabrata' [unknown]; lithograph Britten, J. *Ill.* 1900: pl. 60; col. engraving 1981 *BF*: pl. 63.

A2/73 **TEPHROSIA FILTPES** var. **LATIFOLIA** Bentham, *Fl. austral.* **2**:209 (1864).

SPECIMEN: 2 sheets, Endeavour River (syntypes).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:464–465 'Galegoides sericea'; Britten, J. 1900 *Ill.*: 21 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The vexillum and aloe deep crimson the base of the vexillum citron colour the carina paler crimson the leaves above yellow green below cover'd w^{t} silvery hair the stalks grass green capsula yellow green ting'd w^{t} red w^{t} the edges dark green.' [SP]; 'Galegoides sericea' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/240.

Finished drawing: watercolours *r* [pencil] 'Galegoides sericea' [unknown]; [ink] 'Fred^{k}. Polydore. Nodder. Pinx^{t}. 1777'. 540×360/300.

Copper plate: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 19/471. 460×300/295; engraving proof *r* [pencil] 'Galegoides sericea' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 61; col. engraving 1981 *BF.*: pl. 64.

A2/74 **Tephrosia leptoclada** Bentham, *Fl. austral.* **2**: 207 (1864).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 432–433 'Vicioides rubella'; Britten, J. 1900 *Ill.*: 21 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Vicioides rubella' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/290.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777'. 545×355/300.

Copper plate: [DM]; Bacstrom, S. Ms.: 110; Brown, R. Ms.: 19/472. 460×295/295; engraving proof *r* [pencil] 'Vicioides rubella' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 62; col. engraving 1981 *BF*: pl. 65.

A2/74a **Tephrosia brachyodon** Domin, *Reprium Spec. nov. Regni. veg.* **11**: 262 (1912).

Specimen: Palm Island, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 236–237, 239–240 'Lotus coccineus'; [no description in Britten].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'the Specimen' [unknown]; *v* 'The flowers a middling dark blue purple w^{t} a spot of green at the base of the Vexillum.' [SP]; 'Lotus coccineus' [unknown]; 'R' [unknown]; '180' [unknown]; [ink] 'Palm Island' [JB]. 370×265/285.

Finished drawing: watercolours *r* [pencil] 'not hairy' 'outside of the Vexillum hairy' 'not hairy' 'not hairy' [unknown]; [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1777,'. 540×355/285.

Copper plate: [RB]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 19/469. 460×300/280; engraving proof *r* [pencil] 'Lotus coccineus' [unknown]; [not in Britten]; col. engraving 1981 *BF*: pl. 66.

A2/75 **Sesbania cannabina** (Retzius) Poiret in Lamarck, *Encycl.* **7**: 130 (1806).

Specimen: Booby Island.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 628–630 'Aeschynomene diffusa'; Britten, J. 1900 *Ill.*: 21 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '144' [unknown]; *v* 'The vexillum & aloe bright yellow carina turn^{g} very pale at the bottom ting'^{d} w^{t} green buds pale yellow [SP]; 'Aeschynomene diffusa' [unknown]; [ink] 'Booby Island' [JB]. 370×265/250.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1778'. 540×360/270; see Beaglehole, J.C. 1962 **2**: pl. 32.

Copper plate: [RB]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 21/520. 460×295/265; engraving proof *r* [pencil] 'Aeschynomene diffusa' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 63; col. engraving 1981 *BF*: pl. 67.

A2/76 **Ormocarpum cochinchinensis** (Loureiro) Merrill, *Philipp. J. Sci.* **5**: 76 (1910).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 313 'Galega fruticosa'; Britten, J. 1900 *Ill.*: 22 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Galega fruticosa' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/295.

Finished drawing: watercolours *r* [pencil] 'Galega fruticosa' [unknown]; [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777.'. 540×360/295.

Copper plate: [GS]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 18/433. 460×295/295; engraving proof *r* [pencil] 'Galega fruticosa' [unknown]; lithograph Britten J. 1900 *Ill.*: pl. 64; col. engraving 1981 *BF*: pl. 68.

A2/77 **Smithia conferta** Smith in Rees, *Cycl.* **33**: *Smithia* n. 2 (1816).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 393–394 'Ornithopodioides pilosa'; Britten, J. 1900 *Ill.*: 22 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'flowers yellow capsula & calyx very pale green leaves grass green w^{t} long white hair. stalks stain'd w^{t} purple.' [SP]; 'Ornithopodioides pilosa' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/300.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder, Pinx^{t}, 1778'; [pencil] 'Smithia' [Sm. [?]]. 540×360/390.

Copper plate: [RB]; Bacstrom, S. Ms.: 110; Brown, R. Ms.: 22/550. 455×295/385; engraving proof *r* [pencil] 'Ornithopodioides pilosa' [unknown]; 'Smithia conferta Sm.' [Sm. [?]]; lithograph Britten, J. 1900 *Ill.*: pl. 65; col. engraving 1981 *BF*: pl. 69.

A2/78 **Desmodium rhytidophyllum** F. Mueller ex Bentham, *Fl. austral.* **2**: 233 (1864).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 248 'Hedysarum tenellum'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower pale red purple.' [SP]; 'Hedysarum tenellum' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/450.
Bacstrom, S. Ms.: 108.

A2/79 **Desmodium umbellatum** de Candolle, *Prodr.* **2**: 325 (1825).

Specimen: Palm Island, Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 234–236 'Hedysarum albiflorum'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '59' [unknown]; *v* 'The flowers white. the capsula & buds cover'd w^{t} silvery hair–the leaves dark grass green w^{t} hollow veins the underside much whiter w^{t} small hair & prominent the legumen pale green cover'd w^{t} hair.' [SP]; 'Hedysarum umbellatum' [unknown]; 'P' [unknown]; '172' [unknown]; [ink] 'Palm Island.' [JB]. 470×290/350.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'; [pencil] 'Not to be Engraved' [J. Dryander[?]]. 545×360/400.
Bacstrom, S. Ms.: 108.

A2/80 **URARIA LAGOPOÏDES** (Linnaeus) de Candolle, *Prodr.* **2**: 324 (1825).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 548 'Psoralaeoides spicata'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '140'[?] [unknown]; *v* 'Psoralioides spicata' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/230.

FINISHED DRAWINGS: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777'. 545×360/230.
Bacstrom, S. Ms.: 110.

A2/81 **GLYCINE TABACINA** (Labillardière) Bentham, *Fl. austral.* **2**: 244 (1864).

SPECIMEN: Botany Bay, Bustard Bay, Bay of Inlets (syntype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 37 [index entry only, no description] 'Galegoides trifolia'; [no description in Britten].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '56' [unknown]; 'Galegoides trifolia' [unknown]; *v* 'The vexillum pale blue w^{t} the base whiter the Aloe & carina dark blue the leaves above grass green below glaucous the siliqua & stalks pale green the whole plant cover'd w^{t} fine hair' [SP]; '126' [unknown], 'Galegoides trifolia' [unknown]; [ink] 'Bustard Bay' [JB]. 480×290/400.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777'; [pencil] 'Galegoides trifolia' [unknown]. 540×360/385.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 20/499. 460×300/400; engraving proof *r* [pencil] 'Galegoides trifolia' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 66; col. engraving 1981 *BF*: pl. 70.

A2/82 **GLYCINE TOMENTELLA** Hayata, *Icon Pl. formos.* **9**: 29 (1920).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 546–548 'Glycine paradoxa'; Britten, J. 1900 *Ill.*: 22 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The vexillum pale purple the aloe the same but more on the violet the calyx fresh green ting'd w^{t} purple legumen fresh green cover'd w^{t} fine brown hair.' [SP]; 'Glycine paradoxa' [unknown]; [ink] 'Endeavours River' [JB]. 545×355/405.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1777'; [pencil] 'very fine hair–silky' [unknown]; 'fine hair' [unknown]; 'Glycine paradoxa' [unknown]. 540×360/415.

Copper plate: [RB]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 19/468. 460×295/415; engraving proof *r* [pencil] 'Glycine paradoxa' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 67; col. engraving 1981 *BF*: pl. 71.

A2/83 Hardenbergia violacea (Schneevoogt) Stearn, *J. Bot., Lond.* **78**: 70 (1940).

Specimen: 2 sheets, Botany Bay.

Manuscript: Britten, J. 1900 *Ill.*: 22 *pro descr.* [see Addendum p. 172.]

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '58' [unknown]; *v* 'The flowers a grape dark purple the base of the Carina pale crimson the calyx green ting'd w^{t} red.' [SP]; '24' [unknown]; 'Hedysarum monophyll' [unknown]; [ink] 'Botany Bay.' [JB]. 470×290/405.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777'; [pencil] 'NB this is probably an after flowering' [Dryander[?]]. 540×360/420.

Copper plate: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 20/498. 460×300/415; engraving proof *r* [pencil] 'Hedysarum monophyllum' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl.: 68; col. engraving 1981 *BF*: pl. 72.

A2/84 Vandasia retusa (Bentham) Domin, *Biblthca bot.* **22**: 774 (1926).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 453 'Glycine retusa'; Britten, J. 1900 *Ill.*: 23 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '92'; *v* 'The legumen yellow green ting'd w^{t} red & cover'd w^{t} small down.' [SP]; 'Glycine retusa' [unknown]; [ink] 'Endeavours River' [JB]. 545×355/450.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777'; [pencil] 'Glycine retusa' [unknown]. 545×355/445.

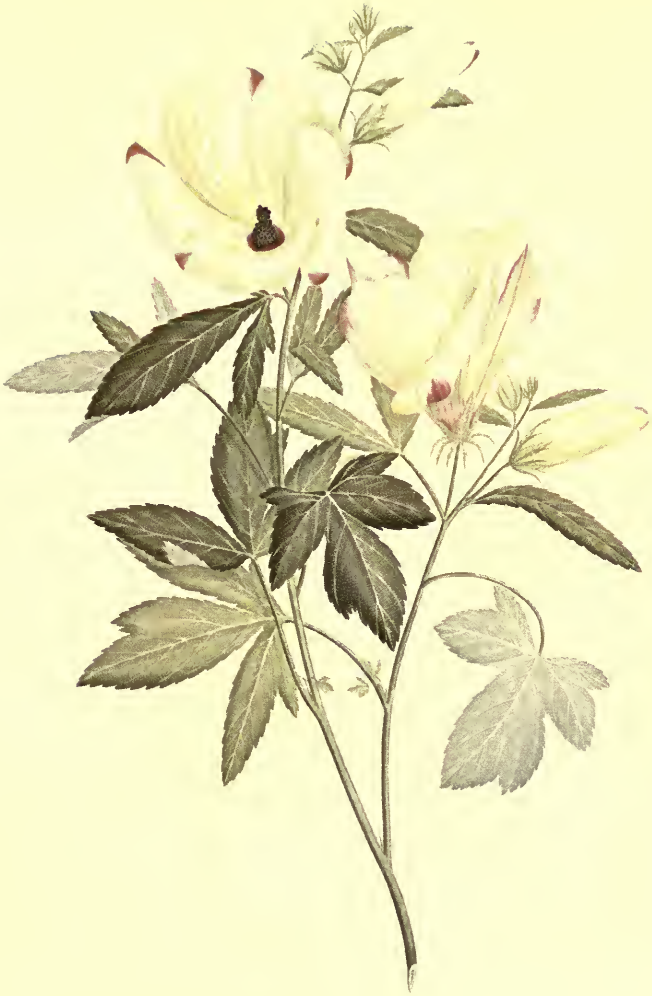
Copper plate: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 19/467. 460×300/440; engraving proof *r* [pencil] 'Glycine retusa' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 69; col. engraving 1981 *BF*: pl. 73.

A2/85 Kennedia rubicunda (Schneevoogt) Ventenat, *Jard. Malm.* **2**: t. 104 (1805).

Specimen: 2 sheets, Botany Bay.

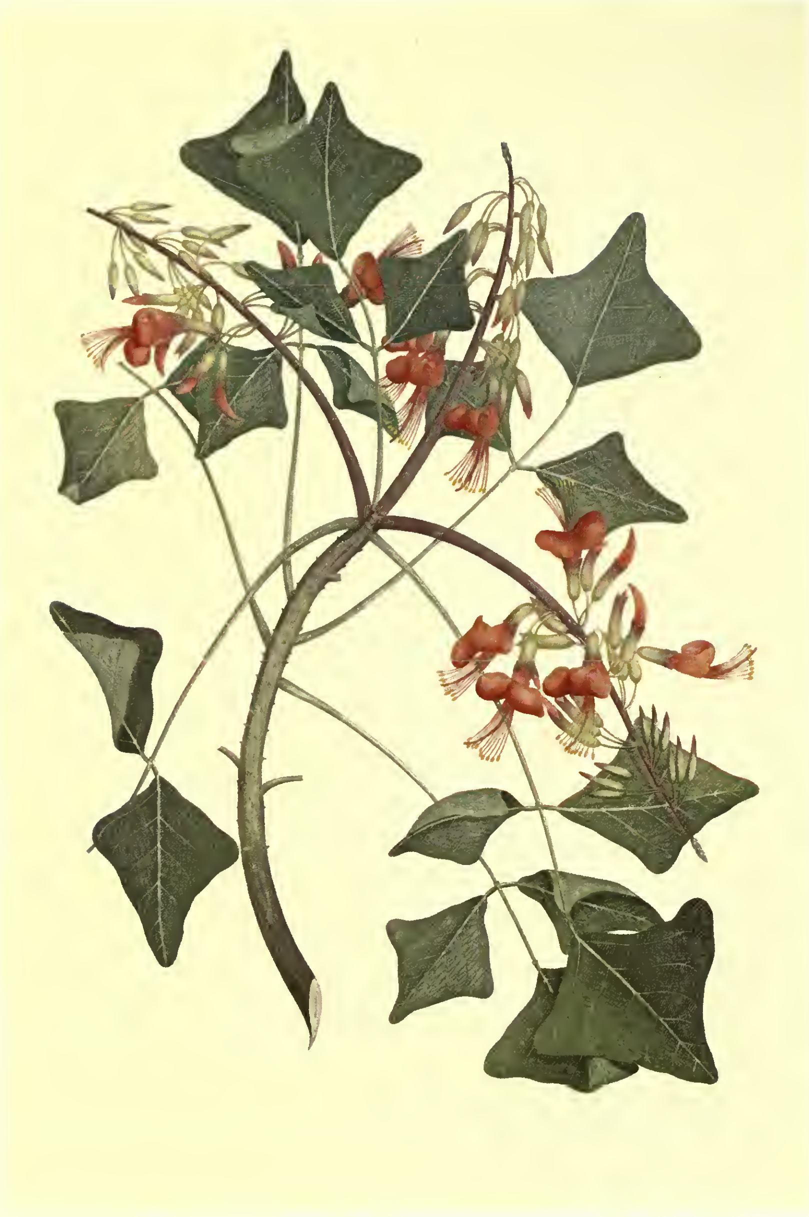
Manuscript: Solander, D. Pl. Nov. Holl. **1**: 4–5 'Glycine rubicunda'; Britten, J. 1900 *Ill*: 23 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala blood colour & deep purple at the base the hind part of the vexillum very pale. the leaves on the upper side grass green vein'd w^{t}. lighter. below more Glaucous & very hairy with prominent veins of paler colour the stalks calyx & buds hairy' [SP]; 'Glycine rubicunda' [unknown]; '54' [unknown]; [ink] 'Botany Bay' [JB]. 540×360/420.



A1/24 *Hibiscus meraukensis*

[Plate 23 from *Banks' Florilegium*]
gathered Palm Island, Australia, 7 June 1770
line engraving by G. Sibelius after Sydney Parkinson (1770) & F. P. Nodder (1778)
460 × 300 mm



A2/86 *Erythrina vespertilio*

[Plate 75 from *Banks' Florilegium*]
gathered Endeavour River, Australia, 17 June–4 August 1770
line engraving by G. Sibelius after Sydney Parkinson (1770) & F. P. Nodder (1777)
460 × 300 mm

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777'; [pencil] 'Glycine rubicunda' [unknown]; 'This is in flower at his Majesty's Garden the first Production of that Climate that has yet flowered in England Oct. 1790' [unknown]. 545×360/430; see Beaglehole, J.C. 1962. **2**: pl. II col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 18/431. 460×300/420; engraving proof *r* [pencil] 'Glycine rubicunda' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 70; col. engraving 1981 *BF*: pl. 74.

A2/86 **Erythrina vespertilio** Bentham in Mitchell, *J. exped. trop. Australia*: 218 (1848).

Specimen: 2 sheets, 1–Endeavour River, 2–Bay of Inlets (syntype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 404–405 'Erythrina cerallodendrum conicolor'; Britten, J. 1900 *Ill.*: 23 *pro descr.*; 1973 *CF*: pl. 17a *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Erythrina concolor' [unknown]; [ink] 'Endeavours River.' [JB]. 545×360/410.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777'; [pencil] 'Erythrina concolor' [unknown]. 540×355/445; see Stearn, W.T. 1968 *Endeavour* **XXVII**: 6, fig. 5 col. pl.

Copper plate: [GS]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 19/464. 460×295/440; engraving proof *r* [pencil] 'Erythrina concolor' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 71; engraving 1973 *CF*: pl. 17a; col. engraving 1981 *BF*: pl. 75.

A2/87 **Mucuna gigantea** (Willdenow) de Candolle, *Prodr.* **2**: 405 (1825).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 340, 342–343, 350, **4**: 506–507 'Dolichos giganteus'; Britten, J. 1900 *Ill.*: 23 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the calyx & vexillum herbaceous green calyx cover'd w^{t} long & sleek orange hair aloe & carina greenish white staming white anth. blk. leaves above dark grass green vein'd w^{t} lighter below blue green vein'd w^{t} grass green & prominent nerves. the capsula fresh green.' [SP]; 'Dolichos giganteus' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/455.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777'; 'Dolichos giganteus' [unknown]. 545×360/450; see Carr, D.J. [Ed.] 1983 pl. 131 p. 143.

Copper plate: [GS]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 18/430. 460×300/445; engraving proof *r* [pencil] 'Dolichos giganteus' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 72; col. engraving 1981 *BF*: pl. 76.

A2/88 **Galactia tenuiflora** (Klein ex Willdenow) Wight and Arnott, *Prodr.*: 206 (1834).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 436–437 'Galegoides purpurea'; Britten, J. 1900 *Ill.*: 24 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The vexillum & aloe [[pale]] delicate red purple the spot at the base of the vexillum yellow green the carina white.' [SP]; 'Galegoides purpurea' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/270.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1778'. 540×360/295.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 21/523. 460×295/305; engraving proof *r* [pencil] 'Galegoides purpurea' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 73; col. engraving 1981 *BF*: pl. 77.

A2/89 CANAVALIA ROSEA (Swartz) de Candolle, *Prodr.* **2**: 404 (1825).

SPECIMEN: 3 sheets, 1–2–Bustard Bay, Bay of Inlets, Endeavour River, Point Lookout, 3–Palm Island.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 226–229 'Glycine spicata'; Britten, J. 1900 *Ill.*: 24 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '53'; *v* 'Glycine spicata' [unknown]; '166' [unknown]; 'The flowers lilac colour w^{t} 5 stripes of white at the base of the vexillum the base of these ting'd w^{t} yellow. The legumen grass green the leaves the same colour as the specieosa' [SP]; [ink] 'Palm Island' [JB]. 295×475/240.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1777'; [pencil] '210' [unknown]; 'Glycine spicata' [unknown]. 350×545/245.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 18/432. 300×460/245; engraving proof *r* [pencil] 'Glycine spicata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 74; col. engraving 1981 *BF*: pl. 78.

A2/90 VIGNA RADIATA (Linnaeus) Wilczek, *Flore Congo Belge* **6**: 386 (1954).

SPECIMEN: 3 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 379–381, 396 'Phaseolus luteus'; Britten, J. 1900 *Ill.*: 24 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The underside of the leaves glaucus green.' [SP]; 'Phaseolus luteus' [unknown]; [ink] 'Endeavour River.' [JB]. 540×360/350.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1777'; [pencil] 'NB The hair bends back' [unknown]. 540×365/380.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 23/568. 460×295/370; engraving proof *r* [pencil] 'Phaseolus luteus' [unknown]: lithograph Britten, J. 1900 *Ill.*: pl. 75; col. engraving 1981 *BF*: pl. 79.

A2/91 VIGNA VEXILLATA (Linnaeus) A. Richard in Sagra, *Hist. Phys. polit. nat. Cuba* **1**: 440 (1845).

SPECIMEN: 5 sheets, 1–Bustard Bay, 2–5–Cape Grafton, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 267 'Phaseolus grandiflorus'; Britten, J. 1900 *Ill.*: 25 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'N° 64 New Holland' [unknown]; *v* 'Phaseolus grandiflorus' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/420.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore. Nodder. Pinx^{t}. 1777'; [pencil] 'Phaseolus grandiflorus' [unknown]. 540×365/430.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 19/465. 460×295/425; engraving proof *r* [pencil] 'Phaseolus grandiflorus' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 76; col. engraving 1981 *BF*: pl. 80.

A2/92 **VIGNA LANCEOLATA** Bentham in Mitchell, *Jour. exped. trop. Australia*: 350 (1848).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 561–563 'Phaseolus triqueter'; Britten, J. 1900 *Ill.*: 25 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '142' [unknown]; *v* 'Phaseoleus 3 queter' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/315.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1777'; [pencil] 'Phaseolus triqueter' [unknown]; 'sharp' [unknown]. 540×365/385.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 106; Brown. R. Ms.: 20/496. 460×300/380; engraving proof *r* [pencil] 'Phaseolus triqueter' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 77; col. engraving 1981 *BF*: pl. 81.

A2/93 **ATYLOSA RETICULATA** (Aiton) Bentham, *Fl. austral.* **2**: 263 (1864).

SPECIMEN: 3 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 297–298 'Glycinoides rugosa'; Solander, D. Slip Catalogue **XV**: 273–276; Britten, J. 1900 *Ill.*: 25 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '54' [?] [unknown]; *v* 'The vexillum & aloe yellow carina pale straw colour the buds the same but a little yellower' [SP]; 'Glycinoides rugosa' [unknown]; '342' [unknown]; [ink] 'Endeavours River' [JB]. 470×290/405.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777.'. 545×365/400.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 108; [not in Brown]. 455×300/395; 2 engraving proofs 1 – *r* [ink] 'D: M'Kenzie'; 'Glycinoides rugosa' [unknown]; 2 – *r* [pencil] 'Cylista reticulata' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 78; col. engraving 1981 *BF*: pl. 82.

A2/94 **RHYNCHOSIA ACUMINATISSIMA** Miquel, *Fl. Ned. Ind.* **1** (1): 171 (1855).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**.: 345–346, 461 'Glycine racemosa'; Britten, J. 1900 *Ill.*: 25 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower pale greenish yellow the aloe more yellow than the rest. stalk leaves below & above vivid grass green w^t hollow veins above & prominent pale veins below. capsulae & petiolelli pale green. the capsula fresh green cover'd w^t small hair' [SP]; 'Glycine racemosa' [unknown]; [ink] 'Endeavours River.' [JB]. 540×365/410.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1777.'. 540×360/415.

Copper plate: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 20/497. 460×300/415; engraving proof *r* [pencil] 'Glycine racemosa' [unknown]; '[D. McKenzie]' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 79; col. engraving 1981 *BF*: pl. 83.

A2/95 **Castanospermum australe** A. Cunningham & Fraser ex Hooker in Fraser, *Bot. Misc.* **1**: 241, t. 51, t. 52 (1830).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 384–386 'Sophora caudiciflora'; Britten, J. 1900 *Ill.*: 26 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The vexillum [[flower]] first laid over w^t yellow then stain'd & sprinkled w^t scarlet. the res^t of the flower scarlet calyx deep buff colour ting'd at the base w^t green the buds the same colour but somewhat more green. The leaves above grass green w^t light veins the underside more Glaucous w^t dark veins stalks sordid brown. capsula grass green.' [SP]; 'Sophora caudiciflora' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/385.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder: pinx^t 1779'. 540×365/450 see Beaglehole, J.C. 1962 **2**: pl. v col. pl.; Carr, D.J. [Ed.] 1983 pl. 132 p. 144.

Copper plate: [GS]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 25/604. 460×300/450; engraving proof *r* [pencil] 'Sophora caudiciflora' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 80; col. engraving 1981 *BF*: pl. 84.

A2/96 **Cynometra ramiflora** Linnaeus, *Sp. pl.* **1**: 382 (1753).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 401–402 'Cynometra bijuga'; Britten, J. 1900 *Ill.*: 26 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Petala & stamina white anthera yellow germen pale crimson capsula grass green' [SP]; 'Cynometra bijuga' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/390.

Finished drawing: watercolours *r* [pencil] 'Cynometra bijuga' [unknown]. 540×360/420.

Copper plate: [GS]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 17/418. 460×300/410; engraving proof *r* [pencil] 'Cynometra bijuga' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 81; col. engraving 1981 *BF*: pl. 85.

A2/97 **ACACIA ULICIFOLIA** (Salisbury) Court, *Victorian Nat.* **73**: 173 (1957).

SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 74–75 'Mimosa ericaefolia'; Britten, J. 1900 *Ill.*: 26 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Mimosa ericaefol' [unknown]; '51' [unknown]; [ink] 'Botany Bay' [JB]. 470×290/390.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1781'. 545×360/395; see Carr, D.J. [Ed.] 1983 pl. 133 p. 145.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 30/[?]. 460×295/390; engraving proof *r* [pencil] 'Mimosa ericaefolia' [unknown]; 'D. Mackenzie'; lithograph Britten, J. 1900 *Ill.*: pl. 82; col. engraving 1981 *BF*: pl. 86.

A2/98 **ACACIA SOLANDRI** Bentham, *Fl. austral.* **2**: 406 (1864).

SPECIMEN: Bay of Inlets (syntype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 210 'Mimosa salicifolia'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'The flowers when blown cream colour the buds greenish white. the leaves the same colour as the other bent leaf'd one.' [SP]; 'Palm Island' [SP]; 'P'[?] [SP]; '162' '84' [unknown]; 'Mimosa salicifolia' [unknown]; [ink] 'Palm Island.' [JB]. 470×290/360.
Bacstrom, S. Ms.: 138.

A2/99 **ACACIA SUAVEOLENS** (Smith) Willdenow, *Sp. pl. ed. 4*, **4** (2): 1050 (1806).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 73–74 'Mimosa suaveolens'; Solander, D. Slip Catalogue **XXI**: 297–303; Britten, J. 1900 *Ill.*: 26 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'flowers almost white' [unknown]; '80' [unknown]; *v* 'The flowers cream colour.' [SP]; 'Mimosa suaveolens' [unknown]; '53' [unknown]; 'suaveolens' [unknown]; [ink] 'Botany Bay.' [JB]. 470×290/390.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1781'. 545×360/405.

COPPER PLATE: [FPN]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 30/[?]. 460×295/395; engraving proof; lithograph Britten, J. 1900 *Ill.*: pl. 83; col. engraving 1981 *BF*: pl. 87.

A2/100 **ACACIA MULTISILIQUA** (Bentham) Maconochie, *J. Adelaide bot. Gdns* **1** (3): 179 (1978).

SPECIMEN: Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 493–494 'Mimosa humilis'; Britten, J. 1900 *Ill.*: 27 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '195'[?] [unknown]; *v* 'flowers yellow leaves dark green w^{t} pale veins the petioles ting'd w^{t} red the capsula fresh green ting'd at the edges w^{t} red stalks dark reddish brown.' [SP]; 'mimosa humilis' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/315.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder pinx^{t} 1781'. 540×365/315.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 30/[?]. 460×300/310; engraving proof *r* [pencil] 'Mimosa humilis' [unknown]; 'D Mackenzie'; lithograph Britten, J. 1900 *Ill.*: pl. 84; col. engraving 1981 *BF*: pl. 88.

A2/101 ACACIA LEGNOTA Pedley, *Austrobaileya* **1**(2): 215 (1978).

SPECIMEN: 2 sheets, Botany Bay, Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 600–602 'Mimosa anceps'; Britten, J. 1900 *Ill.*: 27 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '135' [unknown]; *v* 'the flowers before & after they are open delicate yellow the younger capitula has more or less a cast of green according to their age.' [SP]; 'LI.' [unknown]; 'mimosa anceps' [unknown]; [ink] 'Endeavours River.' [JB]. 540×365/380.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} 1781'. 545×365/390 see Beaglehole, J.C. 1962 **2**: pl. 29.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 30/[?]. 460×300/390; [no engraving proof]; lithograph Britten, J. 1900 *Ill.*: pl. 85; col. engraving 1981 *BF*: pl. 89.

A2/102 ACACIA LONGIFOLIA (Andrews) Willdenow, *Sp. pl. ed. 4*, **4**(2): 1052 (1806).

SPECIMEN: Botany Bay, Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 53 [index entry only, no description] 'Mimosa spicata'; [no description in Britten].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The buds a yellow green & when blown a Cream colour.' [SP]; 'Mimosa spicata' [unknown]; '82' [unknown]; 'spicata' [unknown]; [ink] 'Botany Bay.' [JB]. 470×290/365.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder, pinx^{t}. 1781'. 545×360/365.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 30/[?]. 460×300/360; engraving proof *r* [pencil] 'Mimosa spicata' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. 1900 *Ill.*: pl. 86; col. engraving 1981 *BF*: pl. 90.

A2/103 ACACIA LEIOCALYX (Domin) Pedley, *Contr. Qd Herb.* **15**: 10 (1974).

SPECIMEN: 2 sheets, Bustard Bay, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 134 'Mimosa [[spicata]] axillaris'; Britten, J. 1900. *Ill.*: 27 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* 'Mimosa axillaris' [unknown]; '124' [unknown]; [ink] 'Bustard Bay.' [JB]. 475×295/420.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. pinx^{t}. 1781'. 545×360/435; see Carr, D.J. [Ed.] 1983 pl. 134 p. 146.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 30/[?]. 455×295/430; engraving proof *r* [pencil] 'Mimosa axillaris' [unknown]; 'D M'Kenzie'; lithograph Britten, J. 1900 *Ill.*: pl. 87; col. engraving 1982 *BF*: pl. 91.

A2/104 **ACACIA CALYCULATA** A. Cunningham ex Bentham, *Lond. J. Bot.* **1**:379 (1842).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:451 'Mimosa albiflora'; Britten, J. 1900 *Ill.*: 28 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil 'The stamina white the leaves blue grass green. stalk & petioles yellow green.' [SP]; 'Mimosa albiflora' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/365.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 545×365/365.

COPPER PLATE: [FPN]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 30/[?]. 460×300/375; engraving proof; lithograph Britten, J. 1900 *Ill.*: pl. 88; col. engraving 1982 *BF*: pl. 92.

A2/105 **ACACIA HOLOSERICEA** A. Cunningham ex G. Don, *Gen. hist.* **2**:407 (1832).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:392 'Mimosa sericea'; Britten, J. 1900 *Ill.*: 28 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower bright yellow buds fresh green.' [SP]; 'Mimosa sericea' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/375.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 540×365/380.

COPPER PLATE: [FPN]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 30/[?]. 455×300/375; engraving proof; lithograph Britten, J. 1900 *Ill.*: pl. 89; col. engraving 1982 *BF*: pl. 93.

A2/106 **ACACIA HUMIFUSA** A. Cunningham ex Bentham, *Lond. J. Bot.* **1**:382 (1842).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:362–363 'Mimosa cinerea'; [no description in Britten].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The stamina bright yellow.' [SP]; 'Mimosa cinerea' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/320.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 545×365/355.

COPPER PLATE: [FPN]; [this is an unfinished copper plate]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 30/[?]. 455×300/360; engraving proof; [not in Britten]; col. engraving 1982 *BF*: pl. 94.

A2/107 **ACACIA TERMINALIS** (Salisbury) Macbride, *Contr. Gray Herb. Harv.* **59**:7 (1919).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**:75 'Mimosa pinnata'; Britten, J. 1900 *Ill.*: 28 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]. *r* [pencil] '194' [unknown]; *v* 'The anthera on the blown flower yellow the buds a mixture of straw & orange the leaves on the upperside grass green below much whiter to stalks a greenish red' [SP]; 'Mimosa pinnata' [unknown]; '28' [unknown]; [ink] 'Botany Bay' [JB].

FINISHED DRAWING: watercolours [ink] 'Fred^{k} Polydore Nodder, pinx^{t} 1781'

COPPER PLATE: [FPN]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 30/[?]. 460×300/310; [no engraving proof]; lithograph Britten, J. *Ill.* 1900: pl. 90; col. engraving 1982 *BF*: pl. 95.

A2/108 **ABAREMA GRANDIFLORA** (Bentham) Kostermans, *Bull. org. natuurw. Onderz.* **20**:34, t. 20 (1954).

SPECIMEN: 2 sheets, Endeavour River (syntypes).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:373–374 'Mimosa grandiflora'; Britten, J. 1900 *Ill.*: 28 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'white' 'rich crimson' [SP]; *v* 'Mimosa grandiflora' [unknown]; [ink] 'Endeavours River.' [JB]. 545×365/340.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 545×365/385.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 30/[?]. 460×300/385; [no engraving proof]; lithograph Britten, J. 1900 *Ill.*: pl. 91; col. engraving 1982 *BF*: pl. 96.

CHRYSOBALANACEAE

A3/109 **PARINARI NONDA** F. Mueller ex Bentham, *Fl. austral.* **2**:426 (1864).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:383–384, 400, **4**:474 'Asculoides parviflora'; Britten, J. 1900 *Ill.*: 29 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'Petrocarya' [unknown]; *v* 'Flowers white buds a brownish green leaves above grass green w^{t} light veins below whitish w^{t} dark veins stalks greenish brown.' [SP]; 'Asculoides parviflora' [unknown]; [ink] 'Endeavours River' [JB]. 540×370/385.

FINISHED DRAWING: watercolours *r* [ink] 'Jn:^{o} Cleveley Jun$^{r.}$ Pinx:^{t} 1775.'; *v* [pencil] 'Aesculoides parviflora' [unknown]. 540×370/380.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 58; Brown, R. Ms.: 16/397. 460×295/375; engraving proof *r* [pencil] 'Aesculoides parviflora' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 92; col. engraving 1982 *BF*: pl. 97.

BAUERACEAE

A3/110 **BAUERA RUBIOIDES** var. **MICROPHYLLA** (Sieber ex de Candolle) Seringe ex Bentham, *Fl. austral.* **2**:448 (1864).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**:37 'Verticillata albiflora'; Britten, J. 1900 *Ill.*: 29 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '78' [unknown]; *v* 'The flower white w^t a little blush of Carmine the leaves a vivid grass green. the stalks especially the young ones red. inclin^g to brown.' [SP]; 'Verticilata albiflora' [unknown]; '43' [unknown]; [ink] 'Botany Bay' [JB]. 370×260/295.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1775..'; *v* [pencil] 'Verticilata albiflora' [unknown]; 'B. Bay' [unknown]. 535×360/305.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 14/330. 460×295/305; engraving proof *r* [pencil] 'Verticillata albiflora' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 93; col. engraving 1982 *BF*: pl. 98.

A3/111 **BAUERA CAPITATA** Seringe ex de Candolle, *Prodr.* **4**: 13 (1830).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**:38 'Verticillata rubriflora'; Britten, J. 1900 *Ill.*: 29 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '79' [unknown]; *v* 'The flower a pale crimson w^t a cast of purple the anthera yellow. the calyx pale green tipt w^t brown at the edge.' [SP]; 'Verticilata rubriflora' [unknown]; '14' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/255.

FINISHED DRAWING: watercolours *r* [ink] 'Jn° Cleveley Jun^r. Pinx^t. 1775.'; *v* [pencil] 'Verticilata rubriflora' [unknown]. 540×365/310.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 14/329. 460×300/305; engraving proof *r* [pencil] 'Verticillata rubriflora' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 94; col. engraving 1982 *BF*: pl. 99.

DROSERACEAE

A3/112 **DROSERA INDICA** Linnaeus, *Sp. pl.* **1**: 282 (1753).

SPECIMEN: New South Wales, Cape Grafton, Endeavour River, Point Lookout.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**:253–254, **3**:413–414 'Drosera indica'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '53' [unknown]; *v* 'Drosera indica' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/185.

FINISHED DRAWING: watercolours *r* [ink] 'Jn:° Cleveley Jun^r. Pinct 1774'; *v* [pencil] 'Drosera indica' [unknown]; 'Endeavour River' [unknown]. 540×370/210. Bacstrom, S. Ms.: 44.

A3/113 **Drosera binata** Labillardière, *Nov. Holl. pl.* **1**:76, t.105 (1804).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 13 [index entry only, no description] 'Drosera dichotoma'; Britten, J. 1900 *Ill.*: 29 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '20' [unknown] 'The flowers white germen green Anthera yellow the leaves yellow green the stalks the same ting'd w^t red. especially at ye bottom & top' [SP]; 'Drosera dichotoma' [unknown]; '75' [unknown]; [ink] 'Botany Bay' [JB]. 540×370/470.

Finished drawing: watercolours *r* [ink] 'Jn Cleveley Jun^r. Pinct.'; *v* [pencil] 'Drosera dichotoma' [unknown]; '75' [unknown]; 'Botany Bay' [unknown]. 535×360/470; see Carr, D.J. [Ed.] 1983 pl.135 p.146.

Copper plate: [GS]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/244. 460×295/450; engraving proof *r* [pencil] 'Drosera dichotoma' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl.95; col. engraving 1982 *BF*: pl.100.

A3/114 **Drosera banksii** R. Brown in de Candolle, *Prodr.* **1**:319 (1824).

Specimen: Endeavour River (holotype).

Manuscript: Pl. Nov. Holl. Alphabetical Index **4**: 17 [index entry only, no description] 'Drosera peltata'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '55' [unknown]; *v* 'The petala white anthera yellow the leaves orange red cilia yellow green stalks & calyx ting'd w^t red. the old capsula dark red purple' [SP]; 'Drosera peltulata' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/90.

Finished drawing: watercolours *r* [ink] 'James Miller Del.'. 530×345/90. Bacstrom, S. Ms.: 44.

BYBLIDACEAE

A3/115 **Byblis liniflora** Salisbury, *Parad. Lond.*: t.95 (1808).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 411, 412–413 'Drosera monogyna'; Britten, J. 1900 *Ill.*: 30 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '54' [unknown]; *v* 'Drosera monogyna' [unknown]; [ink] 'Endeavours River' [JB]. 260×365/110.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^t 1774'; *v* [pencil] 'Drosera monogynia' [unknown]. 540×360/140.

Copper plate: [GS]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 28/703. 460×295/120; engraving proof *r* [pencil] 'Drosera monogynia' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. 1900 *Ill.*: pl.96; col. engraving 1982 *BF*: pl.101.

RHIZOPHORACEAE

A3/116 **Rhizophora mucronata** Lamarck, *Encycl.* **6**: 189 (1804).

Specimen: 2 sheets, New South Wales.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 145–146, **3**: 364–365 'Rhizophora mangle'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '64' [unknown]; *v* 'The petala white the stalk red coffee colour. the seed vivid green pericarpium russet green capsula very pale green.' [SP]; 'Rhizoph Mangle' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/460.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777'; [pencil] 'Rhizophora Mangle' [unknown]; *v* 'Endeavours River' [JB]. 540×370/450.
Bacstrom, S. Ms.: 80.

A3/117 **Ceriops tagal** (Perrier de la Bâthie) C. Robinson, *Philipp. J. Sci.* **3**: 306 (1908).

Specimen: Bustard Bay, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 137–139 'Rhizophora capitata'; Britten, J. 1900 *Ill*: 30 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '104' [unknown]; *v* 'The Petala white foliola calicina green at the tip & red at the base' [SP]; '106' [unknown]; 'Rhizoph. capitata' [unknown]; [ink] 'Bustard Bay' [JB]. 365×260/280.

Finished drawing: watercolours *r* [pencil] 'Rhizophora capitata' [unknown]; *v* 'Bustard Bay' [JB]. 540×360/275; see Carr, D.J. [Ed.] 1983 pl. 136 p. 147.

Copper plate: [DM, '1782']; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 29/725. 460×300/255; engraving proof *r* [pencil] 'Rhizophora capitata' [unknown]; 'D. Mackenzie'; lithograph Britten, J. 1900 *Ill.*: pl. 97; col. engraving 1982 *BF*: pl. 102.

A3/118 **Bruguiera conjugata** (Linnaeus) Merrill, *Philipp. J. Sci.* **9**: 118 (1914).

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 198–200, 216–217 'Rhizophora angularis'; Britten, J. 1900 *Ill.*: 30 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '37' [?] [unknown]; *v* 'Rhizoph. angularis' [unknown]; '3' [unknown]; '154' [unknown]; [ink] 'Bustard Bay' [JB]. 470×285/350.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777'; [pencil] 'Rhizophora angularis' [unknown]; *v* 'Bustard Bay' [JB]; 'No specimens for this' [unknown]. 535×355/330.

Copper plate: [RB]; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 20/480. 460×295/330; engraving proof *r* [ink] 'Rhizophora angularis' [RB]; 'Ro:^{t} Blyth'; lithograph Britten, J. 1900 *Ill.*: pl. 98; col. engraving 1982 *BF*: pl. 103.

A3/119 Bruguiera gymnorrhiza Lamarck, *Encycl.* **4** (2): 696, t. 397 (1798).

Specimen: Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 139, 153 'Rhizophora gymnorhiza'.

Outline drawing: pencil outlines with colour references [SP]; r [pencil] '62' [unknown]; *v* 'The Seed deep grass green remains of the capsula red & green.' [SP]; 'Rhizoph. gymnorhiza' [unknown]; '120' [unknown]; [ink] 'Bustard Bay' [JB]. 540×365/460.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinxt 1777'; [pencil] Rhizophora Gymnorhiza' [unknown]; *v* 'Bustard Bay' [JB]. 540×365/460. Bacstrom, S. Ms.: 80.

A3/120 Carallia brachiata (Loureiro) Merrill, *Philipp. J. Sci.* **15**: 249 (1919).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 339–340, **4**: 486–487 'Ginoroides dichotoma'; Britten, J. 1900 *Ill.*: 31 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Ginoroides dichotoma' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/310.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'; [pencil] 'alternately compressd' [unknown]; 'concave' [unknown]. 540×350/380.

Copper plate: [GS]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 25/612. 460×295/375; engraving proof *r* [pencil] 'Ginoroides dichotoma' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 99; col. engraving 1982 *BF*: pl. 104.

Notes: the annotations on the finished drawing are corrections for the engraver and these have been incorporated into the engraving.

COMBRETACEAE

A3/121 Lumnitzera littorea (Jack) Voigt, *Hort. suburb. Calc.*: 39 (1845).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 402–404 'Kada Kandel coccinea'; Britten, J. 1900 *Ill.*: 31 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '35' [unknown]; *v* 'Kada Kandel coccinea' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/380.

Finished drawing: watercolours *r* [pencil] 'the bractea not distinct enough' [unknown]. 540×365/365; see Carr, D.J. [Ed.] 1983 pl. 137 p. 148.

Copper plate: [DM]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 26/631. 460×300/365; 2 engraving proofs: 1 – *r* [pencil] 'Kada Caudel cocinea' [unknown]; 'D. MKenzie'; 2—*r* [pencil] 'Kada Kandel coccinea' [unknown]; lithograph Britten, J. 1900 *Ill.*: pl. 100; col. engraving 1982 *BF*: pl. 105.

MYRTACEAE

A3/122 **DARWINIA FASCICULARIS** Rudge, *Trans. Linn. Soc. Lond.* **11**:299, t.22 (1815) subsp. **FASCICULARIS**.

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**:64–65 'Kalmoides fasciculata'; Britten, J. 1901 *Ill.*:35 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '89' [unknown]; *v* 'The flower white but when older it becomes red & shuts up the anthera blk the leaves fresh green stalk sordid brown.' [SP]; 'Kalmioides fasciculata' [unknown]; 'N° 8' [unknown]; [ink] 'Botany Bay' [JB]. 370×300/265.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'. 540×355/305; see Beaglehole, J.C. 1962 **2**:pl. 21.

Copper plate: [GS]; Bacstrom, S. Ms.:78; Brown, R. Ms.:25/607. 460×300/305; engraving proof *r* [pencil] 'Kalmioides fasciculata' [unknown]; lithograph Britten, J. 1901 *Ill.*:pl. 101; col. engraving 1982 *BF*:pl. 106.

A3/123 **THRYPTOMENE OLIGANDRA** F. Mueller, *Fragm.* **1**:11 (1858).

Specimen: Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **2**:284–285, **4**:587 'Rhamnoides microphyllus'; Britten, J. 1901 *Ill.*:35 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '71' [unknown]; *v* 'Flowers white leaves vivid green stalk pale sordid brown.' [SP]; 'Rhamnoides microphylla' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/290; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [pencil] '169a' [unknown]; [ink] 'Rhamnoides microphyla' 'Endeavour River' [unknown].

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1774'; *v* [pencil] 'Rhamnoides microphy E. River' [unknown]. 535×350/290.

Copper plate: [JG]; Bacstrom, S. Ms.:46; Brown, R. Ms.:13/309. 406×295/290; engraving proof *r* [pencil] 'Goldar Engr'; 'Rhamnoides microphylla' [unknown]; lithograph Britten, J. 1901 *Ill.*:pl. 102 [incorrectly numbered in Britten as 104]; col. engraving 1982 *BF*:pl. 107.

A3/124 **BAECKEA IMBRICATA** (Gaertner) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*:608 (1917).

Specimen: 2 sheets, 1 – Botany Bay, 2 – Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. Systematic Index **4**:27 [index entry only, no description] 'Philadelphus imbricatus'; [no description in Britten].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil '110' [unknown]; *v* 'The petala white.' [SP]; 'Philadelphus imbricatus' [unknown]; 'N° 7' [unknown]; [ink] 'Botany Bay' [JB]. 365×255/300.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'. 540×365/290.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 25/614. 460×300/320; engraving proof *r* [pencil] 'Philadelphus imbricatus' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 103; col. engraving 1982 *BF*: pl. 108.

A3/125 **Baeckea imbricata** (Gaertner) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*: 608 (1917).

Specimen: Botany Bay (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 38–39 'Philadelphoides tenellus'; Britten, J. 1901 *Ill.*: 35 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '109' [unknown]; *v* 'The flowers white' [SP]; 'Philadelphus tenellus' [unknown]; 'N^{o}. 11' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/300.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1779'. 540×360/310.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 25/613. 460×300/310; engraving proof *r* [pencil] 'Philadelphus tenellus' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 104 [Goldar incorrectly listed as engraver on lithograph]; col. engraving 1982 *BF*: pl. 109.

A3/126 **Leptospermum fabricia** Bentham, *Fl. austral.* **3**: 102 (1867).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 468 'Philadelphoides myrtifolia'; Britten, J. 1901 *Ill.*: 36 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Capsula green w^{t} a cast of brown faded petala pale brown leaves grass green vein'd w^{t} dark green stalks brown red. when old sordid brown joining on of the leaves ting'd red.' [SP]; 'Philadelph. myrtifolius' [unknown]; [ink] 'Endeavours bay' [JB]. 365×260/295.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1779'. 540×365/280.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 22/540. 455×295/265; engraving proof *r* [pencil] 'Philadelphoides myrtifolia [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 105; col. engraving 1982 *BF*: pl. 110.

A3/127 **Leptospermum squarrosum** Gaertner, *Fruct. Sem. pl.* **1**: 174, t. 35 (1788).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 56 'Philadelphus squarrosus'; Britten, J. 1901 *Ill.*: 36 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '112' [unknown]; *v* 'The petala white, receptacle green stamina white anthera reddish a red ring round the edge of the receptacle.' [SP]; 'N^{o}. 6' [unknown]; 'Philadelphus squarrosus' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/290.

Finished drawing: watercolours *r* [ink] 'Fred.^{k} P.. Nodder pinx.^{t}'; [pencil] 'Philadelphus squarrosus' [unknown]. 545×365/315.

Copper plate: [DM]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 26/630. 460×300/315; engraving proof *r* [pencil] ‘Philadelphus squarrosus’ [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 106; col. engraving 1982 *BF*: pl. 111.

A3/128 **Leptospermum attenuatum** Smith, *Trans. Linn. Soc. Lond.* **3**: 262 (1797).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 53–54 ‘Philadelphus sericeus’; Britten, J. 1901 *Ill.*: 36 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘38’ ‘the leaves of tho [?] large’ [unknown]; *v* ‘The petala white a small red ring round the opening of the receptacle which is green the anthera pale red.’ [SP]; ‘10’ [unknown]; ‘Philadelph sericeus’ [unknown]; [ink] ‘Botany Bay’ [JB]. 370×260/270.

Finished drawing: watercolours *r* [ink] ‘Fred^{k}. Polydore Nodder. Pinx^{t}. 1779’. 540×365/250.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 25/615; 460×295/250; engraving proof *r* [pencil] ‘Philadelphus sericeus’ [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 107; col. engraving 1982 *BF*: pl. 112.

A3/129 **Callistemon citrinus** (Curtis) Skeels, *Bull. Bur. Pl. Ind. U.S. Dep. Agric.* **282**: 49 (1913).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 68–69 ‘Metrosideros citrinus’; Britten, J. 1901 *Ill.*: 36 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘Purple Brown’ [unknown]; *v* ‘The stamina rich scarlet w^{t} yellow anthera [SP]; ‘Metrosid citrina’ [unknown]; ‘5’ [unknown]; [ink] ‘Botany Bay’ [JB]. 480×285/385.

Finished drawing: watercolours *r* [ink] ‘Fred^{k}. Polydore Nodder. Pinx^{t}. 1777’; [pencil] ‘Metrosideros citrina’ [unknown]. 545×360/420.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 19/459. 460×300/415; engraving proof *r* [pencil] ‘Metrosideros citrina’ [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 108; col. engraving 1982 *BF*: pl. 113.

A3/130 **Callistemon viminalis** (Solander ex Gaertner) G. Don in Loudon, *Hort. brit.*: 197 (1830).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 386–387 ‘Metrosideros viminalis’; Britten, J. 1901 *Ill.*: 37 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘70’; *v* ‘the Petala & stamina carmine anthera cream colour. leaves above grass green faintly vein’d w^{t} lighter below more pale vein’d the same. Capsula sordid brown. buds green ting’d w^{t} red.’ [SP]; ‘Metrosideros viminalis’ [unknown]; [ink] ‘Endeavours River’ [JB]. 545×365/340.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777.'. 545×365/335.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 19/458. 460×295/330; engraving proof *r* [pencil] 'Metrosideros viminalis [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 109; col. engraving 1982 *BF*: pl. 114.

A3/131 **Melaleuca thymifolia** Smith, *Trans. Linn. Soc. Lond.* **3**: 278 (1797).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 46–47 'Nectandra pentapetala'; Britten, J. 1901 *Ill.*: 37 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '115' [unknown]; 'underside of the leaves [?]' [unknown]; *v* 'The stamina and petala purple w^{t} cream col. anthera the buds dark purple the calyx green the leaves a blue green stalk dirty brown.' [SP]; 'Nectandra pentapetala' [unknown]; '46' [unknown]; [ink] 'Botany Bay' [JB]. 370×260/270.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 540×365/270.

Copper plate: [GS]; Bacstrom, S. Ms.: 92; [not in Brown]. 460×295/265; engraving proof *r* [pencil] 'Nectandra pentapetala' [unknown]; 'G. Sibelius'; lithograph Britten, J. 1901 *Ill.*: pl. 110; col. engraving 1982 *BF*: pl. 115.

A3/132 **Melaleuca angustifolia** Gaertner, *Fruct. Sem. pl.* **1**: 172, t. 35 (1788).

Specimen: 2 sheets, 1 – Endeavour River, Point Lookout, Possession Island (isotype), 2 – Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 276–277 'Melaleuca angustifolia'; Britten, J. 1901 *Ill.*: 37 *pro descr.*; 1973 *CF*: pl. 18a *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The stamina petala & nectarium white w^{t} a cast of green the foliola calacyna pale green' [SP]; 'Melaleuca angustifolia' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/315.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777..'; [pencil] 'Melaleuca angustifolia' [unknown]. 545×365/405.

Copper plate: [GS]; Bacstrom, S. Ms.: 112; Brown, R. Ms.: 18/436. 460×300/400; engraving proof *r* [pencil] 'Melaleuca angustifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 111; engraving 1973 *CF*: pl. 18a; col. engraving 1982 *BF*: pl. 116.

A3/133 **Melaleuca quinquenervia** (Cavanilles) S.T. Blake, *Proc. R. Soc. Qd* **69**: 76 (1958).

Specimen: 3 sheets, 1 – Bay of Inlets, 2–3 – Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 136 'Metrosideros terebinthina'; Britten, J. 1901 *Ill.*: 37 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '66'; *v* 'The anthera & stamina white.' [SP]; '116' [unknown]; 'Metrosid terebinthina' [unknown]; [ink] 'Bustard Bay.' [JB]. 545×365/370.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 495×330/375; see Carr, D.J. [Ed.] 1983 pl. 138 p. 149.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 29/722. 460×300/370; engraving proof *r* [pencil] 'Metrosideros terebintinum' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. il. engraving 1982 *BF*: pl. 117.

A3/134 **MELALEUCA VIRIDIFLORA** Solander ex Gaertner, *Fruct. Sem. pl.* **1**: 173, t. 35 (1788).

SPECIMEN: 3 sheets, Endeavour River (isotypes).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 568 'Metrosideros sanguinea'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Metrosideros sanguinea' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/400.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777.'; [A second state of the drawing of the flowers has been pasted onto the original drawing, these incorporate corrections.]. 540×365/415.
Bacstrom, S. Ms.: 84.

A3/135 **MELALEUCA VIRIDIFLORA** Solander ex Gaertner, *Fruct. Sem. pl.* **1**: 173, t. 35 (1788).

SPECIMEN: 2 sheets, Bay of Inlets. Blake indicates that the holotype, although not located on the specimen, came from Endeavour River. Both possible isotypes are indicated as from Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 211–212 'Metrosideros viridiflora'; Britten, J. 1901 *Ill.*: 38 *pro descr.*; 1973 *CF*: pl. 18 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Metrosider viridiflora' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/370.

FINISHED DRAWING: watercolours *r* [pencil] 'New Holland 2' [unknown]; [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777.'; [A second state of the drawing of the flowers has been pasted onto the original drawing, this incorporates corrections.]. 540×365/405.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 24/577. 460×300/405; engraving proof *r* [pencil] 'Metrosideros viridiflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 113; engraving 1973 *CF*: pl. 18; col. engraving 1982 *BF*: pl. 118.

A3/136 **MELALEUCA ARMILLARIS** Smith, *Trans. Linn. Soc. Lond.* **3**: 277 (1797).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 27 [index entry only, no description] 'Metrosideros armillaris'; [no description in Britten]; 1973 *CF*: pl. 18b *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Metrosid armillaris' [unknown]; 'N^{o}' [?] [unknown]; [ink] 'Botany Bay' [JB]. 370×260/310.

Finished drawing: watercolours *r* [pencil] 'Metrosideros armillaris' [unknown]; [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777.'. 545×365/410.

Copper plate: * [G. Smith]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 21/503. 460×295/405; engraving proof *r* [pencil] 'Metrosideros armillaris' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 114; 1973 *CF*: pl. 18b.

A3/137 **Melaleuca nodosa** (Solander ex Gaertner) Smith, *Trans. Linn. Soc. Lond.* **3**: 276 (1797).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 16–17 'Metrosideros nodosa'; Britten, J. 1901 *Ill.*: 38 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '107' [unknown]; *v* 'The Stamina white anthera yellow. the leaves grass green.' [SP]; 'N^{o} 4' [unknown]; 'Metrosidero nodosa' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/280.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777.'. 540×365/340.

Copper plate: [DM]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 21/504. 460×300/335; engraving proof *r* [pencil] 'Metrosideros nodosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 115; col. engraving 1982 *BF*: pl. 119.

A3/138 **Eucalyptus alba** Reinwardt ex Blume, *Bijdr. fl. Ned. Ind.* **17**: 1101 (1827).

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 179–180 'Metrosideros populifolia'; Britten, J. 1901 *Ill.*: 38 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '67'; *v* '3' [unknown]; 'Metrosideros populifolia' [unknown]; '137' [unknown]; [ink] 'Thirsty Sound.' [JB]. 545×365/455.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1778'. 545×365/430; see Carr, D.J. [Ed.] 1983 pl. 139 p. 150.

Copper plate: [RB]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 21/501. 460×295/420; engraving proof *r* [pencil] 'Metrosideros populifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 116; col. engraving 1982 *BF*: pl. 120.

A3/139 **Eucalyptus crebra** F. Mueller, *J. Linn. Soc.* **3**: 87 (1859).

Specimen: 2 sheets, 1—Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 181–182 'Metrosideros salicifolia'; Britten, J. 1901 *Ill.*: 39 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '30'; *v* The stamina white receptacle pale green the stalks the same. The leaves a pale blue green w^{t} a yellowish nerve in the middle' [SP]; '3' [unknown]; '139' [unknown]; 'Metrosid obliqua' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×285/350.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 545×355/370; see Beaglehole, J.C. 1962 **2**: pl. 22.

Copper plate: [RB]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 21/502. 460×295/380; engraving proof *r* [pencil] 'Metrosideros obliqua [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 117; col. engraving 1982 *BF*: pl. 121.

A3/140 **Tristania suaveolens** (Solander ex Gaertner) Smith in Rees, *Cycl.* **36**: *Tristania* n. 2 (1817).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 275–276 'Melaleuca suaveolens'; Britten, J. 1901 *Ill.*: 39 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '102'; *v* 'The petala & stamina white germen & calyx pale green anthera dark brown.' [SP]; 'Melaleuca suaveolens' [unknown]; [ink] 'Endeavours River.' [JB]. 540×355/355.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777.'; [pencil] 'Melaleuca suaveolens' [unknown]. 545×365/440.

Copper plate: [DM]; Bacstrom, S. Ms.: 112; Brown, R. Ms.: 18/435. 460×300/440; engraving proof *r* [ink] 'Melaleuca suaveolens' [unknown]; 'D: M'Kenzie'; lithograph Britten, J. 1901 *Ill.*: pl. 118; col. engraving 1982 *BF*: pl. 122.

A3/141 **Rhodomyrtus macrocarpa** Bentham, *Fl. austral.* **3**: 273 (1867).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 331–332 'Psidium ferum'; Britten, J. 1901 *Ill.*: 39 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '72'; *v* 'The flowers white anthera a grey olive colour old stalk brown.' [SP]; 'Psidium ferum' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/390.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'; [pencil] 'x folded' [unknown]. 540×365/420.

Copper plate: [DM]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 26/634. 460×295/380; engraving proof *r* [pencil] 'Psidium ferum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 119; col. engraving 1982 *BF*: pl. 123.

A3/142 **Myrtella obtusa** (Endlicher) A.J. Scott, *Kew Bull.* **33**: 300 (1978).

Specimen: 2 sheets, Cape Grafton, Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 253, 265, **3**: 430 'Mentzelioides floribunda'; Britten, J. 1900 *Ill.*: 39 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '116'; *v* 'The flower a delicate crimson & when long blow very pale dark crimson stamina cream colour'd anthera' [SP]; 'Mentzelioides floribunda' [unknown]; 'R 175' [unknown]; [ink] 'Cape Grafton' [JB]. 365×260/275.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore. Nodder. Pinx^{t} 1778'; [pencil] 'longer.' 545×365/285.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 26/636. 460×300/280; engraving proof *r* [pencil] 'Menzelioides floribunda' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 120; col. engraving 1982 *BF*: pl. 124.

A3/143 **SYZYGIUM SUBORBICULARE** (Bentham) Hartley & Perry, *J. Arnold Arbor* **54** (2): 189 (1973).

SPECIMEN: 2 sheets, Lizard Island.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 596–597, 604 'Eugenia cymosa'; Britten, J. 1901 *Ill.*: 40 *pro descr.*; 1973 *CF*: pl. 19 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'flower & Artery White' [unknown]; *v* 'Eugenia cymosa' [unknown]; 'L.I.' [unknown]; [ink] 'Lizzard Island' [JB]. 540×365/455.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777'; [pencil] 'Eugenia cymosa' [unknown]. 545×365/455; see Carr, D. J. [Ed.] 1983 pl. 140 p. 151.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 86; Brown, R. Ms.: 19/460. 460×295/410; engraving proof *r* [pencil] 'Eugenia cymosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 121; engraving 1973 *CF*: pl. 19; col. engraving 1982 *BF*: pl. 125.

A3/144 **EUGENIA BANKSII** Britten & S. Moore, *J. Bot., Lond.* **40**: 26 (1902).

SPECIMEN: 3 sheets, Endeavour River (isotypes).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 361, **4**: 479–480 'Metrosideros humile'; Britten, J. 1901 *Ill.*: 97 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'petala & Stamina white anthera pale yellow buds & peducles pale green.' [SP]; 'Metrodsid humilis' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/365.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777.'. 545×365/400.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 26/629. 460×300/395; engraving proof *r* [pencil] 'R. Blyth Engr.'; 'Metrosideros humilis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 122; col. engraving 1982 *BF*: pl. 126.

NOTES: the engraver is recorded as Mackenzie in the Bacstrom catalogue but the engraving proof is signed by Robert Blyth.

BARRINGTONIACEAE

A3/145 **BARRINGTONIA CALYPTRATA** (R. Brown ex Miers) Knuth, *Pflanzenr.* **4**(219): 19 (1939).

SPECIMEN: Lizard Island, Islands of Cape Fear (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 592–594, 604–605 'Eugenia ramiflora'; Britten, J. 1901 *Ill.*: 40 *pro descr.*; 1973 *CF*: pl. 20 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'underside of the leaves yellow [?] whitish green Pet W Stile G Anthera [?]' [SP]; *v* 'The petala & stamina white the anthera yellow the buds ting'd w^{t} green calyx gray green turning pale toward the edge the main stalk of the flower deep green the woody stalk sordid brown.' [SP]; 'Eugenia ramiflora' [unknown]; 'L.I.' [unknown]; [ink] 'Lizzard Isle' [JB]. 545×365/455.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1777.'. 545×370/455; see Beaglehole, J.C. 1962 **2**: pl. 31; Carr, D.J. [Ed.] 1983 pl. 144 p. 154.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 86; Brown, R. Ms.: 18/429. 460×300/455; engraving proof *r* [pencil] 'Eugenia ramiflora [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 123; engraving 1973 *CF*: pl. 20; col. engraving 1982 *BF*: pl. 127.

A3/146 PLANCHONIA CAREYA (F. Mueller) Knuth, *Pflanzenr.* **4** (219): 56 (1939).

SPECIMEN: 2 sheets, Cape Grafton (syntypes).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 248–249, 252–253 'Eugenia crenata'; Britten, J. 1901 *Ill.*: 41 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '73' [unknown]; *v* 'The petala & stalk pale whitish green stamina white turning into a fine blush colour about the middle to the bottom anthera cream colour.' [SP]; 'Eugenia crenata' [unknown]; 'R' [unknown]; '77' [unknown]; [ink] 'Cape Grafton' [JB]. 540×355/350.

FINISHED DRAWING: watercolours *r* [pencil] 'Eugenia crenata' [unknown]; [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1777.'; *v* [pencil] 'Cape Grafton' [JB]. 535×365/415; see Beaglehole, J.C. 1962 **2**: pl. 25.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 86; Brown, R. Ms.: 19/461. 460×295/385; engraving proof *r* [pencil] 'Eugenia crenata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 124; col. engraving 1982 *BF*: pl. 128.

MELASTOMATACEAE

A3/147 MELASTOMA DENTICULATUM Labillardière, *Sert. austro-caledon.* **1**: 65, t. 64 (1825).

SPECIMEN: Bustard Bay, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 145 'Melastoma malabathrica'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '28' [unknown]; *v* 'Melastoma malabathrica' [unknown]; '305' [?] [unknown]; [ink] 'Endeavours River' [JB]. 470×285/300.

FINISHED DRAWING: watercolours *r* [pencil] 'Melastoma malabathrica' [unknown]. 540×365/285.
Bacstrom, S. Ms.: 72.

LYTHRACEAE

A3/148a **ROTALA DENSIFLORA** (Roth ex Roemer & Schultes) Koehne, *Bot. Jb.* **1**: 164 (1880).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 396–397 'Lechaeoides monogyna'; Britten, J. 1901 *Ill.*: 41 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Flowers purple leaves fresh green stalk very pale green' [SP]; 'Lecheoides monogyna' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/270.

FINISHED DRAWING: watercolours *r* [pencil] 'James Miller Pinxt'; *v* 'Lechioides monogyna' [unknown]. 545×365/365.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 18; Brown, R. Ms.: 2/46. 460×295/365; engraving proof *r* [pencil] 'Lechioides monogyna' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 125 [together with A3/148b]; col. engraving 1982 *BF*: pl. 129.

A3/148b **ROTALA MEXICANA** Schlechtendal & Chamisso, *Linnaea* **5**: 567 (1830).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 558–559 'Ortegioides decussata'; Britten, J. 1901 *Ill.*: 41 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '25' [?] [unknown]; *v* 'Ortegioides decussata' [unknown]; [ink] 'Endeavours River' [JB]. 290×225/100.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773..'; *v* [pencil] 'Ortegioides decussata' [unknown]. 535×365/100.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 18; Brown, R. Ms.: 2/47; 460×295/100; engraving proof *r* [pencil] 'Ortegoides decussata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 125 [together with A3/148a]; col. engraving 1982 *BF*: pl. 130.

A3/149 **AMMANIA BACCIFERA** Linnaeus, *Sp. pl.* **1**: 120 (1753).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 374–375 'Centunculoides ramosa'; Britten, J. 1901 *Ill.*: 41 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '38' [unknown]; *v* pencil outlines [SP]; 'Centunculoides ramosa' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/185.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1774.'; *v* [pencil] 'Centunculoides ramosa' [unknown]; 'Novae Hollandia.' [unknown]. 540×355/285.

COPPER PLATE: [D]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 6/149. 460×295/280; engraving proof *r* [pencil] 'Centunculoides ramosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 126; col. engraving 1982 *BF*: pl. 131.

A3/150 Ammania auriculata Willdenow, *Hort. berol.* **1**:t.7 (1803).

Specimen: Point Lookout, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 585–586, 615–616 'Ammannia succulenta'; Britten, J. 1901 *Ill.*: 42 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'PF' [unknown]; 'Flowers pale green ting'd w^{t} crimson the germen dark purple the leaves fresh green w^{t} a hollow nerve the stalks the same ting'd w^{t} crimson especially at the bottom.' [SP]; 'CF' [unknown]; 'Ammannia succulenta' [unknown]; [ink] 'Point Lookout' [JB]. 365×265/270.

Finished drawing: watercolours *v* [pencil] 'Ammannia succulenta' [unknown]. 545×345/345.

Copper plate: [WT]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 9/207; 460×295/335; engraving proof *r* [pencil] 'Ammannia succulenta [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 127; col. engraving 1982 *BF*: pl. 132.

A3/151 Pemphis acidula Forster & G. Forster, *Char. gen. pl.*: 68, t.34 (1775).

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 581–582, 616 'Lythroides succulenta'; Britten, J. 1901 *Ill.*: 42 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Lythroides succulenta' [unknown]; 'PI' [unknown]; [ink] 'Point Lookout' [JB]. 545×365/335.

Finished drawing: watercolours *r* [pencil] '2 flowers' [unknown]; 'broader petals' [unknown]; 'every other a little shorter' [unknown]; 'Lythroides succulenta' [unknown]; [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777'. 540×355/350.

Copper plate: [Smith [?]]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 22/539. 460×300/345; engraving proof *r* [pencil] 'Lythroides succulenta' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 128; col. engraving 1982 *BF*: pl. 133.

Notes: the annotations on the finished drawing are corrections for the engraver and these have been incorporated into the engraving.

ONAGRACEAE

A3/152 Ludwigia octovalvis (Jacquin) Raven, *Kew Bull.* **15**: 476 (1962).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 457–458, 459 'Jussiaea exaltata'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '33' [unknown]; *v* 'The old Capsules brown.' [SP]; 'Jussiaea exaltata' [unknown]; '390' [unknown]; [ink] 'Endeavours River' [JB]. 475×285/390.
[Not in Bacstrom].

PASSIFLORACEAE

A3/153 **Passiflora aurantia** G. Forster, *Fl. ins. austr.*: 62 (1786).

Specimen: 2 sheets, Bay of Inlets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 188–189 'Passiflora coccinea'; Britten, J. 1901 *Ill.*: 42 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '100' [?] [unknown]; *v* [pencil] '3' [unknown]; 'The Petala cherry colour small nectaria dark red the large buff colour staind w^{t} red near the edge. stile & stigma pale green anthera yellow green leaves vivid grass green w^{t} small veins the underside pale glaucus fruit pea green tendrils brown the middle lobe to made much shorter.' [SP]; 'Passiflora coccinea' [unknown]; '156' [unknown]; [ink] 'Thirsty Sound' [JB]. 540×365/405.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder, Pinx^{t}. 1780'. 545×365/350.

Copper plate: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 24/589. 460×300/365; engraving proof *r* [pencil] 'Passiflora coccinea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 129; col. engraving 1982 *BF*: pl. 134.

CUCURBITACEAE

A3/154 **Diplocyclos palmatus** (Linnaeus) Jeffrey, *Kew Bull.* **15** (3): 352 (1962).

Specimen: 2 sheets, 1 – Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 320–322 'Bryonia vittata'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala greenish white cover'd w^{t} down the anthera yellow spaces between pale green. the fruit when ripe cherry colour stript white' [SP]; 'Bryonia vittata [?]' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/420.
Bacstrom, S. Ms.: 130.

A3/155 **Zehneria cunninghamii** F. Mueller, *Hooker's J. Bot.* **8**: 50 (1856).

Specimen: Bustard Bay, Bay of Inlets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 129, **3**: 420–421 'Bryonia rubra'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers yellow. the fruit when ripe rich scarlet' [SP]; 'Bryonia rubra' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/300.
Bacstrom, S. Ms.: 130.

AIZOACEAE

A3/156 **Sesuvium portulacastrum** (Linnaeus) Linnaeus, *Syst. nat. ed. 10*, **2**: 1058 (1759).

Specimen: Bustard Bay, Bay of Inlets, Palm Island, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 114–115, **2**: 213 'Sesuvium corniculatum'; Britten, J. 1901 *Ill.*: 43 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '127' [unknown]; 'Sesuvium corniculatum' [unknown]; [ink] 'Thirsty Sound' [JB]. 270×365/120.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1777'; [pencil] 'Sesuvium corniculatum' [unknown]. 350×545/155.

Copper plate: [DM]; Bacstrom, S. Ms.: 86; Brown, R. Ms.: 19/463. 460×295/175; engraving proof *r* [pencil] 'Sesuvium corniculatum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 130; col. engraving 1982 *BF*: pl. 135.

UMBELLIFERAE

A3/157 Centella asiatica (Linnaeus) Urban in Martius, *Fl. bras.* **11** (1): 287 (1879).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 473–474 'Hydrocotyle grandis'; Britten, J. 1901 *Ill.*: 43 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'leaves above grass green w^{t} hollow veins below pale glaucus w^{t} very prominent veins the stalks & fruit fresh green' [SP]; 'Hydrocotyle grandis' [unknown]; [ink] 'Endeavours River' [JB]. 265×370/180.

Finished drawing: watercolours *r* [ink] 'James Miller Pinxt.'; *v* [pencil] 'Hydrocotyle grandis' [JB [?]]; 'Endeavours River' [JB]. 345×520/180.

Copper plate: [DM]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 16/400. 300×460/175; engraving proof *r* [pencil] 'Hydrocotyle grandis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 131; col. engraving 1982 *BF*: pl. 136.

A3/158 Trachymene procumbens (F. Mueller) Bentham, *Fl. austral.* **3**: 350 (1867).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 358–359 'Saniculoides uniumbellata'; Britten, J. 1901 *Ill.*: 43 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white capsula, stalks and leaves above grass green vein'd w^{t} lighter, below somewhat paler w^{t} dark green veins' [SP]; 'Saniculoides umbellata' [unknown]; [ink] 'Endeavours River' [JB]. 535×355/430.

Finished drawing: watercolours *r* [ink] 'Jn^{o} Cleveley Jun^{r} Pinct. 1774.'; *v* [pencil] 'Saniculoides Umbellata' [unknown]; 'Endeavour River' [JB]. 525×350/430.

Copper plate: [GS]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 11/254. 460×295/425; engraving proof *r* [pencil] 'Saniculoides uniumbellata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 132; col. engraving 1982 *BF*: pl. 137.

A3/159 **Platysace ericoides** (Sieber ex Sprengel) Norman, *J. Bot., Lond.* **77**: 210 (1939).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 25 'Umbellata ericaefolia'; Britten, J. 1901 *Ill.*: 43 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala white the leaves grass green & the young stalks dark red the old ones coffee colour' [SP]; 'Umbellata ericaefolia' [unknown]; '9' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/255.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1774.'; *v* [pencil] 'umbellata ericaefolia' [unknown]; 'Botany Bay' [JB]. 535×355/340.

Copper plate: [GS]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 12/300. 460×295/335; engraving proof *r* [pencil] 'Umbellata Ericaefolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 133; col. engraving 1982 *BF*: pl. 138.

A3/160 **Platysace lanceolata** (Labillardière) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*: 647 (1917).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 25–26 'Umbellata latifolia'; Britten, J. 1901 *Ill.*: 44 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white the buds tipt w^{t} crimson' [SP]; 'Umbellata latifolia' [unknown]; '35' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/200.

Finished drawing: watercolours *r* [ink] 'James Miller Pinxt. 1774'; *v* [pencil] 'Umbellata latifolia' [unknown]; 'Botany Bay' [JB]. 535×355/215.

Copper plate: [JG]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 13/303. 460×295/210; engraving proof *r* [pencil] 'Umbellata latifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 134; col. engraving 1982 *BF*: pl. 139.

A3/161 **Xanthosia pilosa** Rudge, *Trans. Linn. Soc. Lond.* **10**: 301, t. 22, f. 1 (1811).

Specimen: 3 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 34–35 'Saniculoides hirta'; Britten, J. 1901 *Ill.*: 44 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '60' [unknown]; *v* 'Saniculoides hirta' [unknown]; '85' [unknown]; [ink] 'Botany Bay' [JB]. 370×260/285.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller del: pinxt 1774'; *v* [pencil] 'Saniculoides hirta' [unknown]; 'Botany Bay' [JB]. 535×365/335.

Copper plate: [DM]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 13/302. 460×295/335; engraving proof *r* [pencil] 'Saniculoides hirta' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 135; col. engraving 1982 *BF*: pl. 140.

A3/162 **Actinotus helianthi** Labillardière, *Nov. Holl. pl.* **1**:67, t.92 (1805).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**:19 'Involucrata candida'; Britten, J. 1901 *Ill.*:44 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '12' [?] [unknown]; *v* 'Involucrata candida' [unknown]; 'the radius white the tips a little green the disk pale green somewhat grey anthera brownish yellow the buds greenish the upper side of the leaves grey green cover'd w^{t} white down the underside almost white with down the whole stalks and buds are also downy.' [SP]; '61' [unknown]; [ink] 'Botany Bay' [JB]. 470×285/400.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller. del. Pinx^{t}: 1774'; *v* [pencil] 'Involucrata candida' [unknown]; 'N: Holland.' [unknown]. 515×355/410; see Carr, D.J. [Ed.] 1983 pl. 141 p. 152.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 11/252. 460×295/410; engraving proof *r* [pencil] 'Involucrata candida' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 136; col. engraving 1982 *BF*: pl. 141.

A3/163 **Actinotus minor** (Smith) de Candolle, *Prodr.* **4**:83 (1830).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**:34 'Involucrata stellata'; Britten, J. 1901 *Ill.*:44 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Involucrata stellata' [unknown]; 'The radius white & very hairy tipt w^{t} green & black underneath the disk citrern colour. the stalks & upper side of the leaves grass green underside silvery white.' [SP]; '37' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/325.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller del: pinxt. 1774'; *v* [pencil] 'Involucrata stittata' [unknown]. 530×355/325.

Copper plate: [DM]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 11/251. 460×295/320; engraving proof *r* [pencil] 'Involucrata stellata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 137; col. engraving 1982 *BF*: pl. 142.

RUBIACEAE

A4/164 **Hedyotis mitrasacmoides** F. Mueller, *Fragm.* **4**:37 (1863).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**:328 'Houstonioides filiformis'; Britten, J. 1901 *Ill.*:44 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '42' [?] [unknown]; *v* 'the flower white leaves dark green the stalks & capsula dirty purple.' [SP]; 'Houstonioides filiformis' [unknown]; [ink] 'Endeavours River' [JB]. 370×260/130.

Finished drawing: watercolours *r* [pencil] 'Houstonioides filif' [unknown]. 540×360/140.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 6/150. 460×300/135; engraving proof *r* [pencil] 'Houstonioides filiformis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 138; col. engraving 1982 *BF*: pl. 143.

A4/165 **OLDENLANDIA BIFLORA** Linnaeus, *Sp. pl.* **1**: 119 (1753).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 312 'Hedyotis decumbens'; Britten, J. 1901 *Ill.*: 45 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the flowers white w^t a pale tinge of purple when newly blown quite white.' [SP]; 'Hedyotes decumbens' [unknown]; [ink] 'Endeavours River' [JB]. 368×260/283; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and pencil *r* [pencil] 'Fructification belonging to Hedyotis decumbens.' [unknown].

FINISHED DRAWING: watercolours *v* [pencil] 'Hedyotis becumbens' [unknown]. 530×355/305.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/57. 530×355/305; engraving proof *r* [pencil] 'Hedyotis decumbens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 139; col. engraving 1982 *BF*: pl. 144.

A4/166 **IXORA TIMORENSIS** Decaisne, *Nouv. Ann. Mus. Hist. nat. Paris* **3**: 418 (1834).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 421, 438–439 'Ixora suaveolens'; Britten, J. 1901 *Ill.*: 45 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Petala white stigma pale green anthera ash colour' [SP]; 'Ixora suaveolens' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/405.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinx^t 1773'; *v* [pencil] 'Ixora suaveOlens' [unknown]. 540×360/430.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/63. 460×295/410; engraving proof *r* [pencil] 'Ixora suaveolens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 140; col. engraving 1982 *BF*: pl. 145.

A4/167 **IXORA QUEENSLANDICA** Fosberg, *J. Bot., Lond.* **76**: 234 (1938).

SPECIMEN: Bay of Inlets, Thirsty Sound (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 165 'Pavetta triflora'; Britten, J. 1901 *Ill.*: 45 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '47' [unknown]; *v* 'The flowers white [[lea stamina]] anthera brown the leaves shining grass green with small prominent veins the under side pale green vein'd with [[lig]] darker' [SP]; 'Pavetta triflora' [unknown]; '128' [unknown]; '3' [unknown]; [ink] 'Thirsty Sound' [JB]. 370×260/255.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt,'; *v* [pencil] 'Pavetta triflora' [unknown]. 530×360/250.

Copper plate: [JL]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/64. 455×295/245; engraving proof *r* [pencil] 'Pavetta triflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 141; col. engraving 1982 *BF*: pl. 146.

A4/168 Timonius timon (Sprengel) Merrill, *J. Arnold Arbor.* **18**: 131 (1937).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 333–335 'Erithalis arborescens'; Britten, J. 1901 *Ill.*: 45 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the flower white.' [SP]; 'Erithalis arborescens' [unknown]; [ink] 'Endeavours River' [JB]. 545×355/430.

Finished drawing: watercolours *r* [ink] 'James Miller pinxt'; *v* 'Erithalis arborescens' [unknown]; 'Endeavours River' [unknown]. 530×360/445.

Copper plate: [GS]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 8/195. 460×300/440; engraving proof *r* [pencil] 'Erithalis arborescens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 142; col. engraving 1982 *BF*: pl. 147.

A4/169 Schyphiphora hydrophylacea C.F. Gaertner, *Suppl. carp.*: 91, t. 196, f. 2 (1806).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 394–395 'Ixoroides littoralis'; Britten, J. 1901 *Ill.*: 46 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Ixoroides littoralis' [unknown]; [ink] 'Endeavours River' [JB]. 540×355/340.

Finished drawing: watercolours *v* [pencil] 'Ixoroides littoralis' [unknown]; 'Endeavours river' [unknown]. 540×360/385; see Carr, D.J. [Ed.] 1983 pl. 142 p. 152.

Copper plate: [CW]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 6/148. 460×295/385; engraving proof *r* [pencil] 'Ixoroides littoralis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 143; col. engraving 1982 *BF*: pl. 148.

A4/170 Canthium coprosmoides F. Mueller, *Trans. phil. Inst. Vict.* **3**: 47 (1858).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 437–438 'Lycium biflorum'; Britten, J. 1901 *Ill.*: 46 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '7' [?] [unknown]; *v* 'The petala orange brown edg'd w^{t} white stamina turning white stile pale citron the tube at the base greenish.' [SP]; 'Lycium biflorum' [unknown]; 'the same genus as Chiococca cymosa of Otaheite' [unknown]; [ink] 'Endeavours River' [JB]. 370×260/275.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1774.'; *v* [pencil] 'Lycium biflorum' [unknown]. 530×350/290.

Copper plate: [CW]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 9/221. 460×295/290; engraving proof *r* [pencil] 'Lycium biflorum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 144; col. engraving 1982 *BF*: pl. 149.

Notes: see also Society Islands 1/39.

A4/171 Coelospermum decipiens Baillon, *Bull. mens. Soc. linn. Paris* **1**: 218 (1878).

Specimen: 2 sheets, 1 – Endeavour River, Point Lookout, Possession Island, 2 – Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 283–284, **3**: 456–457 'Morinda arida'; Britten, J. 1901 *Ill.*: 46 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'out' [unknown]; '40' [?] [unknown]; *v* The flower, stamina & folia bracteata white tube of the corolla pale green anthera yellow' [SP]; 'Morinda arida' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/410.

Finished drawing: watercolours *r* [ink] 'James Miller pinx'; *v* [pencil] 'Morinda arida' [unknown]. 540×355/415; see Carr, D.J. [Ed.] 1983 pl. 143 p. 153.

Copper plate: [CW]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 9/210. 460×295/410; engraving proof *r* [pencil] 'Morinda arida' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 145; col. engraving 1982 *BF*: pl. 150.

A4/172 Psychotria undescribed species (nesophila auct. non F. Mueller).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 371–372 'Psychotria margaritacea'; Britten, J. 1901 *Ill.*: 46 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Psycotria margaritacea' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/270.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}'; *v* [pencil] 'Psychotria margaritacea' [unknown]. 515×355/355.

Copper plate: [D]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 8/183. 460×295/355; engraving proof *r* [pencil] 'Psycotria margaritacea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 146; col. engraving 1982 *BF*: pl. 151.

A4/173 Psychotria loniceroides Sieber ex de Candolle, *Prodr.* **4**: 523 (1830).

Specimen: 2 sheets, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 169–170 'Lycioides cymosa'; Britten, J. 1901 *Ill.*: 47 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '16' [unknown]; *v* 'The flowers white' [SP]; 'Lycioides cymosa' '149' [unknown]; [ink] 'Thirsty Sound' [JB]. 465×285/275.

Finished drawing: watercolours *r* [ink] 'Jn^{o} Cleveley Jun^{r} Pinct. 1774.'; *v* [pencil] 'Lycioides cymosa' [unknown]. 535×360/280.

Copper plate: [JG]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 13/305. 460×295/275; engraving proof *r* [pencil] 'Lycioides cymosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 147; col. engraving 1982 *BF*: pl. 152.

A4/174 **Myrmecodia beccarii** Hooker, *Bot. Mag.*:t.6683 (1886).

Specimen: *.

Manuscript: Solander, D. Pl. Nov. Holl. **3**:441–442, **4**:580 'Epidendroides tetrandra'; Britten, J. 1901 *Ill.*:47 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Epidendroides 4andra' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/480.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773..'; [pencil] 'too large' [unknown]; *v* 'Epidendroides 4andria' [unknown]; 'Endeavours River' [unknown]. 545×355/420; see Beaglehole, J.C. 1962 **2**:pl.27; Carr, D.J. [Ed.] 1983 pl.145 p.155.
Bacstrom, S. Ms.:26; lithograph [RM]; Britten, J. 1901 *Ill.*:pl.148. 485×320/445.

Notes: a lithographic stone was drawn by Robert Morgan for Britten as there was no copper plate.

A4/175 **Opercularia aspera** Gaertner, *Fruct. Sem. pl.* **1**:112, t.24, f.4 (1788).

Specimen: 2 sheets, Bustard Bay, Botany Bay (isotypes).

Manuscript: Solander, D. Pl. Nov. Holl. **1**:127 'Rubioides angustifolia'; Britten, J. 1901 *Ill.*:47 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '48' [unknown]; *v* 'The buds green tipt w^{t} reddish the flowers Citron Colour the capsulæ green calyx persistans [?] stems dark Colour the leaves & stalks fresh green below somewhat glaucus.' [SP]; 'Rubioides angustifolia' [unknown]; '95' [unknown]; [ink] 'Botany Bay' [JB]. 370×260/305.

Finished drawing: watercolours *r* [ink] 'James Miller Del.'; *v* [pencil] 'Rubioides angustifolia' [unknown]. 535×360/360.

Copper plate: [D]; Bacstrom, S. Ms.:26; Brown, R. Ms.:9/215. 460×295/360; engraving proof *r* [pencil] 'Rubioides angustifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*:pl.149; col. engraving 1982 *BF*:pl.153.

A4/176 **Pomax umbellata** (Gaertner) Solander ex A. Richard, *Mém. Soc. Hist. nat. Paris* **5**:146, t.13, f.1 (1834).

Specimen: Botany Bay (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **1**:58–59 'Pomax umbellata'; Britten, J. 1901 *Ill.*:48 *pro descr.*

Outline drawing: pencil outlines with colour reference [SP]; *r* [pencil] 'I' [?] [unknown]; *v* 'The flowers grass green the operculum ting'd w^{t} red. the leaves above – Grass green. a good deal paler below. the stalks ting'd w^{t} purple the whole plant cover'd w^{t} very fine hair' [SP]; 'Pomax umbellata' [unknown]; '86' [unknown]; [ink] 'Botanists Bay' [JB]. 370×260/235.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t} 1773.'; 'Pomax umbellata' [unknown]. 525×360/270.

Copper plate: [G. Smith]; Bacstrom, S. Ms.:4; Brown, R. Ms.:1/5. 460×295/270; engraving proof *r* [pencil] 'Pomax umbellata' [unknown]; lithograph Britten, J. 1901 *Ill.*:pl.150; col. engraving 1982 *BF*:pl.154.

A4/177 **KNOXIA STRICTA** Gaertner, *Fruct. Sem. pl.* **1**: 122, t. 25, f. 8 (1788).

SPECIMEN: Palm Island (isotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 230–231 'Hedyotis disperma'; Britten. J. 1901 *Ill.*: 48 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '8' [unknown]; *v* 'Hedyotis disperma' [unknown]; 'Hedyotis disperma' [unknown]; '169' [unknown]; [ink] 'Palm Island' [JB]. 470×285/325.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773.'; *v* [pencil] 'Hedyotis disperma' [unknown]. 540×360/375.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 10/240. 460×297/375; engraving proof *r* [pencil] 'Hedyotis disperma [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 151; col. engraving 1982 *BF*: pl. 155.

A4/178 **BORRERIA** undescribed species (**SPERMACOCE MARGINATA** Bentham).

SPECIMEN: 5 sheets, New South Wales.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 122–123, **4**: 588 'Spermacoce nodosa'; Britten, J. 1901 *Ill.*: 48 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Spermacoce nodosa' [unknown]; 'PF' [unknown]; [ink] 'Cape Grafton' [JB]. 545×365/400.

FINISHED DRAWING: watercolours *v* [pencil] 'Spermacoce nodosa' [unknown]. 540×360/435.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/59. 460×295/430; engraving proof *r* [pencil] 'Spermacoce nodosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 152; col. engraving 1982 *BF*: pl. 156.

COMPOSITAE

A4/179 **ADENOSTEMMA VISCOSUM** Forster, *Char. gen. pl.*: 90 (1755).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 308 'Lavenia glutinosa'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '107' [unknown]; *v* 'The flower white' [SP]; 'Lavenia glutinosa' [unknown]; [ink] 'Endeavours River' [JB]. 540×360/415.
Bacstrom, S. Ms.: 114.

A4/180 **OLEARIA ARGUTA** Bentham, *Fl. austral.* **3**: 487 (1867).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 472–473 'Aster acclivis'; Britten, J. 1901 *Ill.*: 49 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '171' [unknown]; *v* 'Disk yellow radius pale lilac stalk yellow green. folia calycina grass green in the middle & very pale at the edge leaves above grass green with pale veins below somewhat paler w^{t} 3 prominent nerves.' [SP]; 'Aster acclivis' [unknown]; [ink] 'Endeavours River.' [JB]. 370×260/290.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1779'; 'The leaves narrower' 'The hair finer' 'sharper' [unknown]. 540×360/285.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 116; Brown, S. Ms.: 23/556. 460×295/290; engraving proof *r* [pencil] 'Aster acclivis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 153; col. engraving 1982 *BF*: pl. 157.

NOTES: the annotations on the finished drawing are corrections which have been incorporated into the engraving.

A4/181 **VITTADINIA MACRORHIZA** (de Candolle) A. Gray, *Proc. Am. Acad. Arts Sci.* **5**: 118 (1861).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 375–376 'Aster hispidulus'; Britten, J. 1901 *Ill.*: 49 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '170' [unknown]; *v* 'Radius white disk yellow stalks & leaves grass green.' [SP]; 'Aster hispidulus' [unknown]; [ink] 'Endeavours River' [JB]. 368×260/255.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1779'; [pencil] 'sharp' 'Not so many leaves near the top' 'too thick' [unknown]. 545×365/250.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 25/620. 460×300/245; engraving proof *r* [pencil] 'Aster hispidulus' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 154; col. engraving 1982 *BF*: pl. 158.

NOTES: the annotations on the finished drawing are corrections which have been incorporated into the engraving.

A4/182 **CALOTIS LAPPULACEA** Bentham in Endlicher *et al.*, *Enum. pl.*: 60 (1837).

SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 49–50 'Cotuloides biaristata'; Britten, J. 1901 *Ill.*: 49 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '150' [unknown]; *v* 'The blown florets yellow the unblown orange the leaves grass green the stalks pale green.' [SP]; '20' [unknown]; 'Cotuloides biaristata' [unknown]; [ink] 'Botany Bay' [JB]. 370×260/250.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1780'. 540×360/270.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 29/707 [?]. 460×295/265; engraving proof *r* [pencil] 'D. Mackenzie'; 'Cotuloides biaristata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 155; col. engraving 1982 *BF*: pl. 159.

A4/183 **PTEROCAULON SPHACELATUM** (Labillardière) Bentham & Hooker ex F. Mueller, *Syst. census Austral. pl.*: 79 (1882).

SPECIMEN: 3 sheets, Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 218–219 'Gnaphalium capitatum'; Britten. J. 1901 *Ill.*: 49 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '72' [?] [unknown]; *v* 'Gnaphalium capitatum' [unknown]; '150' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×285/365.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t 1779'. 545×365/325.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 29/705. 460×295/320; engraving proof *r* [pencil] 'D. Mackenzie'; 'Gnaphalium capitatum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 156; col. engraving 1982 *BF*: pl. 160.

A4/184 **PTEROCAULON SERRULATUM** (Montrouzier) Guillaumin, *Bull. Soc. bot. France* **84**: 56 (1937).

SPECIMEN: 2 sheets, Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 217–218 'Gnaphalium redolens'; Britten, J. 1901 *Ill.*: 50 *pro descr.*; 1973 *CF*: pl. 20a *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers silver colour calicis green the leaves grass green w^t the-nerves & veins pale green the upper side of the leaves vein'd with dark colour.' [SP]; '3' [unknown]; '145' [unknown]; 'Gnaphalium redolens' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×285/395.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. Pinx^t 1779'. 545×365/345.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 24/579. 460×295/340; engraving proof *r* [pencil] 'Gnaphalium redolens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 157; engraving 1973 *CF*: pl. 20a; col. engraving 1982 *BF*: pl. 161.

A4/185 **EPALTES AUSTRALIS** Lessing, *Linnaea* **5**: 148 (1830).

SPECIMEN: 4 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 376 'Cotula carpesioides'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers pale green the leaves above grass green full of dots the nerve in the middle pale below more glaucus.' [SP]; 'Carpesioides' [unknown]; 'Cotula carpesioides' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/185.
Bacstrom, S. Ms.: 118.

A4/186 **EPALTES AUSTRALIS** Lessing, *Linnaea* **5**: 148 (1830).

SPECIMEN: see 185.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 448–449 'Cotula rubriflora'; Britten, J. 1901 *Ill.*: 50 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower claret colour the disk pale brown.' [SP]; 'Cotula Rubriflora' [unknown]; [ink] 'Endeavours River' [JB]. 365×260/175.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1779'. 545×365/285.

Copper plate: [DM]; Bacstrom, S. Ms.: 118; [not in Brown]. 457×295/285; engraving proof *r* [pencil] 'D. Mackenzie'; 'Cotula rubriflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 158; col. engraving 1982 *BF*: pl. 162.

A4/187 **Allopterigeron filifolius** (F. Mueller) Dunlop, *J. Adelaide Bot. Gdns* **3** (2): 183 (1981).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 397–398 'Kleinoides subulata'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '172' [unknown]; *v* 'leaves and stalk vivid [[yellow]] green calyx dark grey green white at the border of each foliola' [unknown]; 'Kleinoides subulata' [unknown]; [ink] 'Endeavours River.' [JB]. 370×260/270.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1780'. 545×360/290.
Bacstrom, S. Ms.: 120.

A4/188 **Wedelia spilanthoides** F. Mueller, *Fragm.* **5**: 64 (1865).

Specimen: Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 151–152 'Silphium angustifolium'; Britten, J. 1901 *Ill.*: 50 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '6' [unknown]; *v* 'The radius bright yellow disk gold Colour the underside of the leaves whitish green with very prominent veins.' [SP]; 'Silphium angustifolium' [unknown]; '140' [unknown]; '3' [unknown]; [ink] 'Botany Bay.' [JB]. 465×285/365.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1780'; [pencil] 'almost round' [unknown]. 545×360/365; see Carr, D.J. [Ed.] 1983 pl. 146 p. 156.

Copper plate: [DM]; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 29/712. 460×300/360; engraving proof; lithograph Britten, J. 1901 *Ill.*: pl. 159; col. engraving 1982 *BF*: pl. 163.

A4/189 **Wedelia biflora** (Linnaeus) de Candolle in Wight, *Contr. Bot. India*: 18 (1834).

Specimen: 6 sheets, 1–3 — Botany Bay, Bay of Inlets, 4–5 — Bay of Inlets, 6 — Bay of Inlets, Cape Grafton, Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 425–427 'Buphthalmum suaveolens'; Britten, J. 1901 *Ill.*: 50 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '7–12' [?] 'pale' 'sharp' [unknown]; *v* 'The radius pale yellow the Disk deep yellow.' [SP]; 'Bupthalmum suaveolens' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/390.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1779'; '1780' [unknown]; [pencil] 'The Calyx too wide' 'Closely [[sh]] imbricated' 'pointed – the Ends turn'd back' [unknown]. 545×360/385.

Copper plate: [DM]; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 23/553. 460×300/410; engraving proof *r* [pencil] 'Buphthalmum suaveolens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 160; col. engraving 1982 *BF*: pl. 164.

Notes: the annotations on the finished drawing are corrections which have been incorporated in the engraving.

A4/190 **Spilanthes grandiflora** Turczaninow, *Bull. Soc. Nat. Moscou* **24**: 185 (1851).

Specimen: *.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 354–356 'Verbesina multiradiata'; Britten, J. 1901 *Ill.*: 51 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '71' [?] [unknown]; '12' [unknown]; *v* 'The radius bright yellow disk gold colour.' [SP]; 'Verbesina multiradiata' [unknown]; '384' [unknown]; 'Endeavour River' [unknown]; [ink] Botany Bay [JB]. 465×285/340.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1779'. 545×365/350.

Copper plate: [DM]; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 26/642. 460×300/350; engraving proof; lithograph Britten, J. 1901 *Ill.*: pl. 161; col. engraving 1982 *BF*: pl. 165.

A4/191 **Phacellothrix cladochaeta** (F. Muller) F. Mueller, *Fragm.* **11**: 49 (1878).

Specimen: 2 sheets, Endeavour River (isosyntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 293 'Chrysocoma uniflora'; Britten, J. 1901 *Ill.*: 51.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '169' [unknown]; *v* 'Chrysocoma uniflora' [unknown]; [ink] 'Endeavours River.' [JB]. 365×260/280.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'; [pencil] 'no distinct hairs' [unknown]. 540×360/310.

Copper plate: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 23/562. 460×300/315; engraving proof *r* [pencil] 'Chrysocoma uniflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 162; col. engraving 1982 *BF*: pl. 166.

A4/192 **HELICHRYSUM BRACTEATUM** (Ventenat) Andrews, *Bot. repos.* **6**:t.428 (*vide* t.375) (1805) *sensu lato.*

SPECIMEN: 2 sheets, Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 155–156 'Xeranthemum aureum'; Britten, J. 1901 *Ill.*: 51 *pro descr.*; 1973 *CF*: pl. 21a *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'much darker' 'yellow' [unknown]; *v* 'The leaves grass green vein'd w^{t} lighter. the under side of the leaves glaucous the middle rib & stalks pale green the upper part of the stalks nex the flower cover'd wt [?]' [SP]; 'Xeranthea aureum' [unknown]; '115' [unknown]; 'aureum' [unknown]; [ink] 'Bustard Bay.' [JB]. 545×360/460.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}; Polydore Nodder. Pinx^{t}; 1779'; [pencil] 'Stems too slender' [unknown]. 545×360/445; see Carr, D.J. [Ed.] 1983 pl. 147 p. 156.

COPPER PLATE: * [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 23/56. 460×295/410; engraving proof *r* [pencil] 'Xeranthemum aureum' [unknown]; lithograph Britten, J. 1901: pl. 163; engraving 1973 *CF*: pl. 21a.

NOTES: the annotation on the finished drawing is a correction which has been incorporated into the engraving.

A4/193 **HELICHRYSUM BRACTEATUM** (Ventenat) Andrews, *Bot. repos.* **6**:t.428 (*vide* t.375) (1805).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 568–570 'Xeranthemoides fulgidum'; Britten, J. 1901 *Ill.*: 51 *pro descr.*; 1973 *CF*: pl. 21 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Xeranthemoides fulgida' [unknown]; [ink] 'Bustard Bay' [JB]. 540×360/300.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}: Polydore Nodder' pinx^{t}: 1780'; [pencil] 'orange' 'lemon' 'flat' 'Hairs very short' [unknown]. 540×360/340; see Beaglehole, J.C. 1962 **2**: pl. 19.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 26/647. 460×300/340; engraving proof *r* [pencil] 'Xeranthemoides fulgida' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 164; engraving 1973 *CF*: pl. 21; col. engraving 1982 *BF*: pl.: 167.

A4/194 **HELICHRYSUM ELATUM** A. Cunningham ex de Candolle, *Prodr.* **6**: 193 (1838).

SPECIMEN: 2 sheets, Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 219–220 'Xeranthemoides candida'; Britten, J. 1901 *Ill.*: 52 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '168' [unknown]; *v* 'The radius white the blown flowers of the disk yellow the rest of the disk brownish white, the leaves fresh green cover'd w^{t} a wooly substance on the edge & underside' [SP]; '134' [unknown]; 'Xeranthemoides candida' [unknown]; [ink] 'Thirsty Sound' [JB]. 370×260/270.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, pinx^{t} 1780'. 540×360/285.

Copper plate: [GS]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 29/706 [?]. 460×295/285; engraving proof *r* [pencil] 'G=Sibelius'; 'Xerantemoides Candida' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 165; col. engraving 1982 *BF*: pl. 168.

A4/195 **Helichrysum collinum** de Candolle, *Prodr.* **6**: 190 (1838).

Specimen: 2 sheets, Endeavour River, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 156–158 'Xeranthemoides croceam'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Disk bright golden yellow calyx pale tawny yellow the leaves grass green stalk somewhat paler & Woolly.' [SP]; '135' [unknown]; 'Xeranthemoides crocea' [unknown]; [ink] 'Bustard Bay.' [JB]. 465×285/325.
Bacstrom, S. Ms.: 120.

A4/196 **Helichrysum rupicola** de Candolle, *Prodr.* **6**: 190 (1838).

Specimen: Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 266–267 'Xeranthemoides lutescens'; Britten, J. 1901 *Ill.*: 52 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '71' [?] [unknown]; *v* 'the flowers bright yellow that which is not fully blown ting'd in the middle w^{t} green the folia calacinæ pale brown.' [SP]; 'R' [unknown]; '188' [unknown]; 'Xeranthemoides lutescens' [unknown]; [ink] 'Bustard Bay.' [JB]. 465×285/325.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, pinx^{t} 1780'. 540×360/320.

Copper plate: [DM]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 29/706 [?]; 2 engraving proofs: 1 – unfinished state *r* [pencil] 'D. Mackenzie'; 'Xeranthemoides lutescens.' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 166; col. engraving 1982 *BF*: pl. 169.

A4/197 **Gynura pseudochina** (Linnaeus) de Candolle, *Prodr.* **6**: 299 (1838).

Specimen: 2 sheets, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 143–145 'Cacalia pilosiuscula'; Britten, J. 1901 *Ill.*: 52 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '151' [unknown]; *v* 'The flowers bright golden yellow' [SP]; 'Cacalia pilosiuscula' [unknown]; '107' [unknown]; [ink] 'Bustard Bay' [JB]. 365×260/240.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1779'. 545×360/240.

Copper plate: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 23/563. 460×295/240; engraving proof *r* [pencil] 'Cacalia pilosiuscula' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 167; col. engraving 1982 *BF*: pl. 170.

STYLIDIACEAE

A5/198 **Stylidium graminifolium** Swartz ex Willdenow, *Sp. pl. ed. 4*, **4**: 146 (1805).

Specimen: 3 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 11–12, 45–46, 60 'Lobeliastrum tetrapetalum'; Britten, J. 1901 *Ill.*: 52 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'crimson' 'red' 'brown red' 'pale red purple' 'red' 'green' 'ting^d w^t red' 'green' 'red' [unknown]; *v* 'The leaves grass green stalk a yellow green.' [SP]; '72' [unknown]; 'Lobeliastrum 4 petalum' [unknown]; [ink] 'Botany Bay.' [JB]. 465×285/425.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder, pinx^t 1780'; [pencil] 'not bent' [unknown]. 545×365/440.

Copper plate: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 26/649. 460×300/440; engraving proof *r* [pencil] 'Lobeliastrum tetrapetalum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 168; col. engraving 1982 *BF*: pl. 171.

A5/199 **Stylidium alsinoides** R. Brown, *Prodr.*: 572 (1810).

Specimen: 2 sheets, 1 – Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 317–318 'Lobelinum alsinoides'; Britten, J. 1901 *Ill.*: 53 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Flower white, leaves, stalk & calyx fresh green' [SP]; 'Lobelinum alsinoides' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/200.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder pinx^t 1780'; [pencil] 'The Stem angular' [unknown]; 'Leaves pointed' [unknown]. 545×365/220.

Copper plate: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 24/594. 450×300/220; engraving proof *r* [pencil] 'Lobelinum alsinoides' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 169; col. engraving 1982 *BF*: pl. 172.

A5/200a **Stylidium rotundifolium** R. Brown, *Prodr.*: 571 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 280–281, **4**: 503–504 'Lobeliastrum latifolium'; Britten, J. 1901 *Ill.*: 53 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '174[?]' [unknown]; *v* 'Lobeliastrum latifol' [unknown]; [ink] 'Endeavours River' [JB]. 370×260/80.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder. pinx^t 1780'; [pencil] 'Calyx obtuse' [unknown]. 545×365/85.

Copper plate: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 24/590. 460×300/90; engraving proof *r* [pencil] 'Lobeliastrum latifolium' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 170A [together with 170B and 170C]; col. engraving 1982 *BF*: pl. 173.

A5/200b **STYLIDIUM ULIGINOSUM** Swartz ex Willdenow, *Magazin Ges. naturf. Fr. Berl.* **I**: 52, 57, f. 4 (1807).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 458 'Lobeliastrum tenellum'; Britten, J. 1901 *Ill.*: 53 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white stalk & leaves reddish green.' [SP]; 'Lobeliastrum tenellum pygmaeum album' [unknown]; [ink] 'Endeavours River.' [JB]. 370×265/80.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk. Polydore Nodder pinxt. 1780'; [pencil] 'Calyx too broad & 4.leaved' [unknown]. 545×365/85.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 24/592. 460×295/85; engraving proof *r* [pencil] 'Lobeliastrum tenellum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 170B [together with 170A and 170C]; col. engraving 1982 *BF*: pl. 174.

A5/200b† **STYLIDIUM** species.

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 458 'Lobeliastrum tenellum'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Lobeliastrum tenellum' [unknown]; 'Ferle [?] pygmaeum album (tenellum)' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/120.
Bacstrom, S. Ms.: 124.

A5/200c **STYLIDIUM PEDUNCULATUM** R. Brown, *Prodr.*: 571 (1810).

SPECIMEN: 2 sheets, 1 – Endeavour River (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 523–524, 528–529 'Lobeliastrum pedunculatum'; Britten, J. 1901 *Ill.*: 53 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '177' [unknown]; *v* 'The flowers red wt a cast of green leaves grass green main stalk red.' [SP]; 'Lobeliastrum pedunculatum' [unknown]; [ink] 'Endeavours River' [JB]. 370×263/85.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk. Polydore Nodder pinxt. 1780'; [pencil] 'hairs only on the Edges' 'emarginated' 't in 3' [unknown]. 545×365/90.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 24/593. 460×300/90; engraving proof *r* [pencil] 'Lobeliastrum pedunculatum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 170C [together with 170A & 170B]; col. engraving 1982 *BF*: pl. 175.

GOODENIACEAE

A5/201 **Lechenaultia filiformis** R. Brown, *Prodr.*: 581 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 409–411, 447 'Lobelia filiformis'; Britten, J. 1901 *Ill.*: 54 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '1607' [?] [unknown]; 'serrated lower crispates' [unknown]; 'tube yellowish' [unknown]; *v* 'Capsula green.' [SP]; 'Lobelia filiformis' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/255.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1782'. 500×330/300.

Copper plate: [DM, '1783']; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 28/697. 460×295/280; engraving proof; lithograph Britten, J. 1901 *Ill.*: pl. 171; col. engraving 1982 *BF*: pl. 176.

A5/202 **Velleia paradoxa** R. Brown, *Prodr.*: 580 (1810).

Specimen: 2 sheets, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 111–112 'Lobelioides supera'; Britten, J. 1901 *Ill.*: 54 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '161' [unknown]; *v* 'the flower yellow turn' deeper at the base of the petals the nerves on the outside ting'd w^{t} purple the stile pale purple bud white the capsula pale green the leaves [[&]], stalk & calyx grass green ting'd w^{t} purple.' [SP]; 'Lobelioides supera' [unknown]; '100' [unknown]; [ink] 'Bustard Bay' [JB]. 370×265/285.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'. 545×365/315; see Carr, D.J. [Ed.] 1983 pl. 148 p. 157.

Copper plate: [DM]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 25/622. 460×300/310; engraving proof *r* [pencil] 'Lobelioides supera' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 172; col. engraving 1982 *BF*: pl. 177.

A5/203 **Velleia pubescens** R. Brown, *Prodr.*: 581 (1810).

Specimen: 2 sheets, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 173–174 'Lobelioides ambigua'; Britten, J. 1901 *Ill.*: 54 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '162' [unknown]; *v* 'The flowers yellow the calyx green ting'd w^{t} red. the leaves above grass green the nerve very pale the underside of the leaves somewhat paler.' [SP]; '3' [unknown]; '32' [unknown]; 'Lobelioides ambigua' [unknown]; [ink] 'Thirsty Sound' [JB]. 370×260/235.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'; [pencil] 'all the leaves of the Calyx are flat' 'flat & 3 Teeth' '3 Teeth' 'hairy' [unknown]. 545×365/250.

COPPER PLATE: [DM, '1781'];Bacstrom, S. Ms.: 120;Brown, R. Ms.: 28/698. 450×295/245;engraving proof;lithograph Britten, J. 1901 *Ill*: pl. 173;col. engraving 1982 *BF*: pl. 178.

A5/204 **GOODENIA OVATA** Smith, *Trans. Linn. Soc. Lond.* **2**: 347 (1794).

SPECIMENS: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 14 'Lobelia rigida';Britten, J. 1901 *Ill.*: 54 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP];*r* [pencil] '152' [?] [unknown];*v* 'The flower yellow. the leaves a fresh green & the stalks the same the under side of the leaves somewhat glacus.' [SP];'80' [?] [unknown];'Lobelia rigida' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/295.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1782'; [pencil] 'too thick' [unknown]. 500×330/345.

COPPER PLATE: [GS, '1783'];Bacstrom, S. Ms.: 120;Brown, R. Ms.: 28/[?]. 460×300/340;engraving proof *r* [pencil] 'G Sibelius';'Lobelia rigida' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 174;col. engraving 1982 *BF*: pl. 179.

A5/205 **GOODENIA ROTUNDIFOLIA** R. Brown, *Prodr.*: 576 (1810).

SPECIMEN: Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 116–117 'Lobelia rotundifolia'; Britten, J. 1901 *Ill.*: 55 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP];*v* [pencil] 'The flower pale yellow nerve in the middle ting'd w^{t} green all the petala except for the middle ting'd w^{t} purple the stigma dirty purple & a border of white stile [?] stalks & leaves grass green somewhat glaucus [?]' [SP];'122' [unknown];'Lobelia rotundifolia' [unknown]; [ink] 'Bustard Bay' [JB]. 370×265/330.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1782'. 500×330/315.

COPPER PLATE: [DM];Bacstrom, S. Ms.: 120;Brown, R. Ms.: 28/[?]. 465×300/170; [no engraving proof];lithograph Britten, J. 1901 *Ill.*: pl. 175;col. engraving 1982 *BF*: pl. 180.

A5/206 **GOODENIA PANICULATA** Smith, *Trans. Linn. Soc. Lond.* **2**: 348 (1794).

SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 51–52 'Lobelia lutea';Britten, J. 1901 *Ill.*: 55 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP];*v* [pencil] 'The flower yellow the nerves somewhat tawny. & on the underside purple brown the Stile the same the tube dirty citron colour. the stalks stain'd w^{t} purple leaves fresh green.' [SP];'25' [unknown];'Lobelia lutea' [unknown]; [ink] 'Botany Bay.' [JB]. 470×285/405.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1783'. 500×330/385.

Copper plate: [GS, '1783'];Bacstrom, S. Ms.: 120;Brown, R. Ms.: 28/[?]. 460×300/380;engraving proof *r* [pencil] 'G:^{d} Sibelius';'Lobelia lutea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 176;col. engraving *BF* 1982: pl. 181.

A5/207a **Goodenia pumilio** R. Brown, *Prodr.*: 579 (1810).

Specimen: 2 sheets, Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 534–535, 552–553 'Lobelia humilis'; Britten, J. 1901 *Ill.*: 55 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves pale herbaceous green the flowers dark red purple' [SP]; 'Lobelia humilis' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/40.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1782'. 520×340/50.

Copper plate: [GS, '1783'];Bacstrom, S. Ms.: 118;Brown, R. Ms.: 28/[?]. 460×300/50;engraving proof *r* [pencil] 'Sibelius';'Lobelia humilis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 177A [together with 177B];col. engraving 1982 *BF*: pl. 182.

A5/207b **Calogyne pilosa** R. Brown, *Prodr.*: 579 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 419–420 'Lobelia pumilis';Britten, J. 1901 *Ill.*: 55 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '8' [unknown]; *v* 'Petala pale buff colour the nerve in the middle deeper & lin'd w^{t} purple leaves pale grass green a little hairy the vein in the middle ting'd w^{t} purple' [SP]; 'Lobelia pumilis' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/65.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1783'. 500×330/150.

Copper plate: [DM];Bacstrom, S. Ms.: 118;Brown, R. Ms.: 28/695. 460×300/140;engraving proof *r* [pencil] 'D.. Mackenzie';'Lobelia pumilis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 177B [together with 177A];col. engraving 1982 *BF*: pl. 183.

A5/208 **Scaevola sericea** Vahl, *Symb. Bot.* **2**: 37 (1791).

Specimen: 2 sheets, 1 – Palm Island.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 237–239 'Lobelia plumieri'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '19' [?] [unknown]; *v* 'The flowers white a little ting'd w^{t} dirty green at the base stile green stigma white the nerves below pale green border'd with brown the fruit white.' [SP]; 'Lobelia Plumieri' [unknown];'174' [unknown]; [ink] 'Palm Island' [JB]. 545×345/465.
Bacstrom, S. Ms.: 118.

A5/209 **Scaevola ramosissima** (Smith) K. Krause in Engler, *Pflanzenr.* **4** (277a): 141 (1912).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 42 [index entry only, no description] 'Lobelia Barbatula'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower elegant violet colour not very dark. the bottom of the petala Straw, the side petala staind & strip'd w^{t} purple the stile pale purple & very hairy The leaves & stalk grass green somewhat pale [?]' [SP]; '76' [unknown]; 'Lobelia barbatula' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/285.
Bacstrom, S. Ms.: 120.

A5/210 **Scaevola calendulacea** (Kennedy) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*: 644 (1917).

Specimen: 2 sheets, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 137 'Lobelia suaveolens'; Britten, J. 1901 *Ill.*: 56 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the flowers pale ultramarine blue the base of the Petala dirty straw colour stamina white stile dirty purple buds greenish white lin'd w^{t} blue.' [SP]; '97' [unknown]; 'Lobelia suaveolens' [unknown]; [ink] 'Bustard Bay' [JB]. 370×265/290.

Finished drawing: watercolours *r* [ink] 'F. Polydore Nodder Pinx^{t} 1782'. 500×330/250.

Copper plate: [GS, '1783']; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 28/690. 460×300/250; 2 engraving proofs: 1 – *r* [pencil] 'G^{d} Sibelius'; 'Lobelia suaveolens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 178; col. engraving 1982 *BF*: pl. 184.

A5/211 **Scaevola calendulcea** (Kennedy) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*: 644 (1917).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 54 'Lobelia barbata'; [no description in Britten].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '67' [unknown]; *v* 'The corolla a pale ultramarine blue [[fading]] turning into a whitish green which goes to the bottom a few dark stripes running from the petala into it the stile sordid purple the small stamina white the anthera yellow The leaves & calica a fresh green [[entirely]] cover'd w^{t} [[very small]] hair the stalk here & there stain'd w^{t} purple.' [SP]; '12' [unknown]; 'barbata' [unknown]; 'Lobelia barbata' [unknown]; [ink] 'Botany Bay.' [JB]. 275×470/155.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 500×330/190.

Copper plate: [GS]; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 28/[?]. 460×300/185; engraving proof *r* [pencil] 'G:^{d} Sibelius'; 'Lobelia barbata' [unknown]; [not in Britten]; col. engraving 1982 *BF*: pl. 185.

STYLIDIACEAE

A5/212 **Stylidium fissilobum** F. Mueller, *Fragm.* **1**: 154 (1859).

Specimen: *.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 430–432 'Lobeliastrum amoenum'; [no description in Britten].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'no specimen' [unknown]; *v* 'petala pale crimson white at the base & then mark'd w^{t} red the stile green. the leaves purplish green' [SP]; 'Lobeliastrum amoenum' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/185.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1780'; [pencil] 'pointed' [unknown]. 540×365/180.

Copper plate: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 24/591. 460×300/180; engraving proof *r* [pencil] 'Lobeliastrum amoenum' [unknown]; [not in Britten]; col. engraving 1982 *BF*: pl. 186.

GOODENIACEAE

A5/213 **Dampiera stricta** R. Brown, *Prodr.*: 589 (1810).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 51 'Lobelia scabrosa'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '65' [unknown]; 'This drawing is not of Lobelia scabrosa (Goodonia ramosissima Smith) but of another plant, specimens of which were mixed with those of scabrosa, and which is Goodenia stricta Smith Browne' [unknown]; *v* 'the petala a middling ultramarine blue the base of each petala pale Gold colour the stalks & leaves a dark grass green the underside somewhat paler.' [SP]; '78' [unknown]; 'Lobelia scabrosa' [unknown]; [ink] 'Botany Bay' [JB]. 470×275/430.
Bacstrom, S. Ms.: 120.

CAMPANULACEAE

A5/214 **Lobelia dentata** Cavanilles, *Icon.* **6** (1): 14, t. 522 (1800).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 13–14 'Lobelia azurea'; Britten, J. 1901 *Ill.*: 56 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'little shorter' [unknown]; *v* 'The flower a delicate ultramarine the base of the petala white. The upperside of the Calyx ting'd w^{t} dirty purple the stalk & leaves grass green.' [SP]; 'Lobelia azure' [unknown]; '77' [unknown]; [ink] 'Botany Bay.' [JB]. 470×275/430.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1782'. 500×330/435.

Copper plate: [DM, '1783'];Bacstrom, S. Ms.: 118;Brown, R. Ms.: 28/689. 460×295/430;engraving proof *r* [pencil] 'D. Mackenzie';'Lobelia azurea' [unknown];lithograph Britten, J. 1901 *Ill.*: pl. 179;col. engraving 1982 *BF*: pl. 187.

A5/215 **Lobelia gracilis** Andrews, *Bot. repos.* **5**: t. 340 (1803).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 42 [index entry only, no description] 'Lobelia dilatata'.

Outline drawing: pencil outlines with colour references [SP];*r* [pencil] '6' [?] [unknown];*v* 'The corrolla a delicate ultramarine turning into a purple on the tube the base of the petala white w^{t} spotts of yellow green. the calyx stain'd w^{t} purple the leaves a grass green the stalks a yellow green the peduncule ting'd w^{t} purple.' [SP];'79' [unknown];'Lobelia dilatata' [unknown]; [ink] 'Botany Bay.' [JB]. 470×285/385.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1783'. 500×330/430.
Bacstrom, S. Ms.: 120.

A5/216 **Lobelia membranacea** R. Brown, *Prodr.*: 563 (1810).

Specimen: 2 sheets, 1 – Bustard Bay (holotype).
Manuscript: Solander, D. Pl. Nov. Holl. **1**: 118 'Lobelia caerula';Britten, J. 1901 *Ill.*: 56 *pro descr.*

Outline drawing: pencil outlines with colour references [SP];*r* [pencil] '156' [unknown];*v* 'Caerulea' [unknown];'Lobelia caerulea' [unknown];'The flowers blue not very dark w^{t} a cast of purple the three lower petala white at the base the leaves & stalk a fresh grass green the leaves white below.' [SP];'96' [unknown]; [ink] 'Bustard Bay' [JB]. 270×375/80.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 500×330/85.

Copper plate: [DM];Bacstrom, S. Ms.: 120;Brown, R. Ms.: 28/[?]. 460×300/80; [no engraving proof];lithograph Britten, J. 1901 *Ill.*: pl. 180;col. engraving 1982 *BF*: pl. 188.

A5/217 **Pratia purpurascens** (R. Brown) E. Wimmer in Engler & Diels, *Pflanzenr.* **4** (276b): 764 (1953).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 13 'Lobelia albiflora';Britten, J. 1901 *Ill.*: 56 *pro descr.*

Outline drawing: pencil outlines with colour references [SP];*v* [pencil] 'The flower white tube pale purple leaves & stalks a fresh green w^{t} prominent veins. the underside staind w^{t} purple & vein'd w^{t} green' [SP];'18' [unknown];'purpurascens' [unknown];'Lobelia albiflora' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/185.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 500×330/215.

Copper plate: [GS, '1783'];Bacstrom, S. Ms.: 118;Brown, R. Ms.: 28/[?]. 460×300/215;engraving proof *r* [pencil] 'G Sibelius';'Lobelia albiflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 181;col. engraving 1982 *BF*: pl. 189.

A5/218 **WAHLENBERGIA COMMUNIS** Carolin, *Proc. Linn. Soc. N.S.W.* **89**: 237 (1965).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 531–533 'Campanula simplicicaulis'; Britten, J. 1901 *Ill.*: 56 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '166' [unknown]; *v* 'Flower pale mamarine blue calyx stalks & leaves fresh green the stalk & leaves above & below thinly set w^t very small white hairs.' [SP]; 'Campanula simplicicaulis' [unknown]; [ink] 'Endeavours River.' [JB]. 540×350/440.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinx:^{t} 1774..'; *v* [pencil] 'Campanula simplici' [unknown]. 535×350/450.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 5/105. 460×300/430; engraving proof *r* [pencil] 'Campanula simplicacaulis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 182; col. engraving 1982 *BF*: pl. 190.

EPACRIDACEAE

A5/219 **STYPHELIA VIRIDIS** Andrews, *Bot. repos.* **5**: t. 312 (1803).

SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 26, 31 'Lisianthoides viridiflora'; Britten, J. 1901 *Ill.*: 57 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers & calyx a pale green the Stamina greenish white the anthera a dark red brown.' [SP]; 'Lisianthoides viridiflora' [unknown]; '36' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/260.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt. 1774'; *v* [pencil] 'Lisianthoides viridiflora' [unknown]; 'Botany Bay' [unknown]. 535×345/345.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 11/253. 460×295/350; engraving proof *r* [pencil] 'Lisianthus viridiflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 183; col. engraving 1982 *BF*: pl. 191.

A5/220 **ASTROLOMA PINIFOLIUM** (R. Brown) Bentham, *Fl. austral.* **4**: 159 (1868).

SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 33 'Ericastrum tenuifolium'; Britten, J. 1901 *Ill.*: 57 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'green yellowish at the Point.' 'scarlet turning into yellow' [SP]; '56' [unknown]; *v* 'Ericatrum tenuifolium' [unknown]; 'N^o.2 Erici' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/305.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller del. pinx^t. 1774'; *v* [pencil] 'Ericastrum tenuifolium' [unknown]. 520×300/295.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/250. 460×295/295; engraving proof *r* [pencil] 'Ericastrum tenuifolium' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 184; col. engraving 1982 *BF*: pl. 192.

A5/221 **LEUCOPOGON VIRGATUS** (Labillardière) R. Brown, *Prodr.*: 543 (1810).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 52 'Barbatula imbricata'; Britten, J. 1901 *Ill.*: 57 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Barbatula imbricata' [unknown]; '41' [unknown]; [ink] 'Botany Bay' [JB]. 365×260/270.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t 1774.'; *v* [pencil] 'Barbutula imbricata' [unknown]; 'Botany Bay' [unknown]. 530×350/275.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/246. 460×295/275; engraving proof *r* [pencil] 'Barbatula imbricata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 185; col. engraving 1982 *BF*: pl. 193.

A5/222 **LEUCOPOGON ERICOIDES** (Smith) R. Brown, *Prodr.*: 543 (1810).

SPECIMEN: 3 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 47–48 'Barbatula patens'; Britten, J. 1901 *Ill.*: 57 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '4' [?] [unknown]; *v* 'The corrola white & very hairy the buds tipt w^t crimson at the base pale green the leaves dark grass green the Stalks a sordid brown' [SP]; 'Barbatula patens' [unknown]; '33' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/285.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt.'; *v* [pencil] 'Barbatula patens' [unknown]; 'Botany Bay' [unknown]. 520×340/295.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/245. 460×295/295; engraving proof *r* [pencil] 'Barbatula patens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 186; col. engraving 1982 *BF*: pl. 194.

A5/223 **LEUCOPOGON RUSCIFOLIUS** R. Brown, *Prodr.*: 545 (1810).

SPECIMEN: Endeavour River (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 288–289 'Laugerioides ruscifolia'; Britten, J. 1901 *Ill.*: 58 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '72' [?] [unknown]; *v* 'The flower white & coverd on the inside w^t down' [SP]; 'Lagerioides ruscifolia' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/290.

FINISHED DRAWING: watercolours *r* [ink] 'Jn:° Cleveley Jun^r. Pinct. 1774.'; *v* [pencil] 'Lagerioides ruscifolia' [unknown]. 525×355/285.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 13/310. 460×295/285; engraving proof *r* [pencil] 'Langerioides ruscifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 187; col. engraving 1982 *BF*: pl. 195.

A5/224 LEUCOPOGON LEPTOSPERMOIDES R. Brown, *Prodr.*: 546 (1810).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 369–370 'Laugerioides arborescens'; Britten, J. 1901 *Ill.*: 58 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '73' [unknown]; *v* 'Flowers white leaves grass green stalk sordid brown.' [SP]; 'Laugerioides arborescens' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/195.

FINISHED DRAWING: watercolours *r* [ink] 'Jn:° Cleveley Jun^{r}. Pinct 1774'; *v* [pencil] 'Laugerioides Arborescens' [unknown]; 'Endeavour River' [unknown]. 535×355/240.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 13/311. 460×295/235; engraving proof *r* [pencil] 'Laugerioides arborescens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 188; col. engraving 1982 *BF*: pl. 196.

A5/225 EPACRIS LONGIFLORA Cavanilles, *Icon.* **4** (1): 25, t. 344 (1797).

SPECIMEN: 3 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 26–27, 34 'Ericastrum pulcherrimum'; Britten, J. 1901 *Ill.*: 58 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '11' [unknown]; 'carmine' 'white' [unknown]; *v* 'The leaves grass green something pale below the Calyx pale green ting'd w^{t} red.' [SP]; 'Ericastrum pulcherrimum' [unknown]; '70' [unknown]; [ink] 'Botany Bay' [JB]. 470×285/355.

FINISHED DRAWING: watercolours *r* [ink] 'James. Miller Pinxt.'; *v* [pencil] 'Ericastrum pulcherrimum' [unknown]; 'Botany Bay' [unknown]. 530×345/375; see Carr, D.J. [Ed.] 1983 pl. 149 p. 158.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 12/297. 460×295/375; engraving proof *r* [pencil] 'Ericastrum pulcherrimum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 189; col. engraving 1982 *BF*: pl. 197.

A5/226 EPACRIS MICROPHYLLA R. Brown, *Prodr.*: 550 (1810).

SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 73 'Diapensioides reflexa'; Britten, J. 1901 *Ill.*: 58 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '10' [unknown]; *v* 'The flowers white leaves grass green, stalk reddish brown.' [SP]; 'Diapensoides reflexa' [unknown]; '52' [unknown]; [ink] 'Botany Bay' [JB]. 470×285/415.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt.'; *v* [pencil] 'Diapensioides reflexa' [unknown]; 'Botany Bay' [unknown]. 525×345/425.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/248. 460×295/420; engraving proof *r* [pencil] 'Diapensioides reflexa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 190; col. engraving 1982 *BF*: pl. 198.

A5/227 **WOOLLSIA PUNGENS** (Cavanilles) F. Mueller, *Fragm.* **9**:48 (1875).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**:76–77 'Diapensioides odorata'; Britten, J. 1901 *Ill.*: 59 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '52' [?]; *v* 'The flowers white the buds pale green the leaves fresh green Stalk sordid brown.' [SP]; 'Diapensioides odorata' [unknown]; '58' [unknown]; [ink] 'Botany Bay' [JB]. 370×260/300.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller del. pinx^t 1774'; *v* [pencil] 'Diapensoides odorata' [unknown]. 530×340/315.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/249. 460×295/320; engraving proof *r* [pencil] 'Diapensoides odorata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 191; col. engraving 1982 *BF*: pl. 199.

PLUMBAGINACEAE

A5/228 **LIMONIUM AUSTRALE** (R. Brown) Kunze, *Revis. gen. pl.*: 394–6 (1891).

SPECIMEN: Bustard Bay, Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 129–130 'Statice exaltata'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Statice exaltata' [unknown]; '119' [unknown]; [ink] 'Bustard Bay.' [JB]. 540×350/445.

FINISHED DRAWING: watercolours *r* [ink] 'James. Miller pinxt. 1774'; *v* [pencil] 'Statice exaltata' [unknown]; 'Bustard Bay' [unknown]. 535×350/455. [Not in Bacstrom].

MYRSINACEAE

A5/229 **RAPANEA URCEOLATA** (R. Brown) Mez in Engler, *Pflanzenr.* **4** (236): 356 (1902).

SPECIMEN: 3 sheets, Endeavour River (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 298 'Gouanoides glaberrima'; Britten, J. 1901 *Ill.*: 59 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '7' [unknown]; *v* 'The flow white parted into 4.' [SP]; 'Gouanoides glaberrima' [unknown]; '367' [unknown]; [ink] 'Endeavours River' [JB]. 470×290/400.

FINISHED DRAWING: watercolours *v* 'Gouanoides glabirama' [unknown]; 'Endeavours River' [unknown]. 535×355/370.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 9/201. 455×295/370; engraving proof *r* [pencil] 'Guanoides glaberrima' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 192; col. engraving 1982 *BF*: pl. 200.

A5/230 **Aegiceras corniculatum** (Stock'm) Blanco, *Fl. Filip.*: 79 (1837).

Specimen: 1 sheet, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 395–396 'Rhizophora umbellata'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '36' [unknown]; *v* 'The flowers white, calyx pale green, anthera pale brown.' [SP]; 'Rhizophora umbellata' [unknown]; '49' [unknown]; [ink] 'Endeavours River' [JB]. 470×285/395.

Finished drawing: watercolours *v* [pencil] 'Endeavours River' [unknown]. 540×360/395; see Beaglehole, J.C. 1962 **2**: pl. 30.
Bacstrom, S. Ms.: 80.

A5/231 **Aegiceras corniculatum** (Stock'm) Blanco, *Fl. Filip.*: 79 (1837).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 45, 66 'Rhizophora corniculata'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white stile crimson' [SP]; 'Rhizophora corniculata' [unknown]; [ink] 'Botany Bay' [JB]. 540×360/330.
Bacstrom, S. Ms.: 80.

SAPOTACEAE

A5/232 **Planchonella obovata** (R. Brown) Pierre, *Not. bot.*: 36 (1890).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 377, **4**: 541 'Rhamnoides obtusifolia'; Britten, J. 1901 *Ill.*: 59 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Rhamnoides obtusifolia' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/375.

Finished drawing: watercolours *r* [ink] 'James. Miller Pinxt 1774'; *v* [pencil] 'Rhamnoides obtusifolia' [unknown]; 'Endeavours River' [unknown]. 530×355/415; see Carr, D.J. [Ed.] 1983 pl. 150 p. 159.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 12/299. 460×300/395; engraving proof *r* [pencil] 'Rhamnoides obtusifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 193; col. engraving 1982 *BF*: pl. 201.

A5/233 **Manilkara kauki** (Linnaeus) Dubard, *Annls Inst. bot-géol. Marseille*, sér. 3, **3**: 9 (1915).

Specimen: Lizard Island.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 191–193, **4**: 617–618 'Mimusops Kauki'; Britten, J. 1901 *Ill.*: 59 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '26' [unknown]; *v* 'The flowers white the buds & outer calyx brown green the inner calyx whitish green.' [SP]; 'Mimusops Kauki' [unknown]; '152' [unknown]; [ink] 'Thirsty Sound' [JB]. 470×285/370.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t 1775.'; *v* [pencil] 'Mimusops Cauki' [unknown]; 'T. Sound' [unknown]. 540×350/365.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 16/377. 460×295/370; engraving proof *r* [pencil] 'Mimusops Cauki' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 194; col. engraving 1982 *BF*: pl. 202.

OLEACEAE

A5/234 **JASMINUM VOLUBILE** Jacquin, *Pl. hort. schoenbr.* **3**: 39, t. 321 (1798).

SPECIMEN: Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 174–175 'Jasminum [[simplicifolium]] lucidum'; Solander, D. Slip Catalogue **1**: 249–252; Britten, J. 1901 *Ill.*: 60 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '3' [unknown]; *v* 'The flowers white stile pale yellow green the leaves a vivid grass green faintly vein'd w^t lighter the underside of the leaves paler very faintly vein'd with dark green the young stalks green turning brown when old the tube of the corralae staind brown.' [SP]; 'Jasminum integrifolium' [unknown]; '140' [unknown]; [ink] 'Thirsty Sound' [JB]. 470×285/385.

FINISHED DRAWING: watercolours *r* [ink] 'James. Miller pinx^t: 1773.'. 540×355/390.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/6. 460×295/395; engraving proof *r* [pencil] 'Jasminum lucidum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 195; col. engraving 1982 *BF*: pl. 203.

A5/235 **OLEA PANICULATA** R. Brown, *Prodr.*: 523 (1810).

SPECIMEN: 2 sheets, Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 162, **4**: 487–488 'Ligustrum arboreum'; Solander, D. Slip Catalogue **1**: 297–299; Britten, J. 1901 *Ill.*: 60 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white stamina brownish yellow buds ting'd w^t green stalks pale green leaves a vivid shining grass green above much paler below w^t very fine veins. the old stalks grey brown.' [SP]; '141' [unknown]; 'Ligustrum arboreum' [unknown]; '3' [unknown]; [ink] 'Thirsty Sound' [JB]. 470×285/385.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinx^t. 1773'. 540×360/385.

COPPER PLATE: [M]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/14. 460×295/385; engraving proof *r* [pencil] 'Ligustrum arboreum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 196; col. engraving 1982 *BF*: pl. 204.

A5/236 **CHIONANTHUS AXILLARIS** R. Brown, *Prodr.*: 523 (1810).

SPECIMEN: 2 sheets, Endeavour River (holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 487–488 'Phillyrea [[Ligustrum]] arbore[[um]]a'; Solander, D. Slip Catalogue **1**: 301–304; Britten, J. 1901 *Ill.*: 60 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white' [SP]; 'Phillyrea arborea' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/420.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1773.'. 535×355/435.

Copper plate: [GS]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/15. 460×295/430; engraving proof *r* [pencil] 'Phyllirea arborea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 197; col. engraving 1982 *BF*: pl. 205.

APOCYNACEAE

A5/237 **Alyxia spicata** R. Brown, *Prodr.*: 470 (1810).

Specimen: 5 sheets, 1–4 — Endeavour River, 5 – Cape Grafton, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 254–255 'Galaxa salicifolia'; Britten, J. 1901 *Ill.*: 60 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '194' [?]; *v* 'the flowers & calyx greenish white. the buds pale green' [SP]; 'Galaxa salicifolia' [unknown]; 'R' [unknown]; '183' [unknown]; [ink] 'Cape Grafton' [JB]. 540×345/455.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller Pinx^{t}: 1774.'; *v* [pencil] 'Galaxa salicifolia' [unknown]. 525×350/445; see Carr, D.J. [Ed.] 1983 pl. 151 p. 160.

Copper plate: [D]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 9/217. 460×295/440; engraving proof *r* [pencil] 'Alyxia salicifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 198; col. engraving 1982 *BF*: pl. 206.

A5/238 **Alyxia spicata** R. Brown, *Prodr.*: 470 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 440, 448 'Galaxa subspicata'; [no description in Britten].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '28' [unknown]; *v* 'The petala white the tube orange the buds yellow the base being orange the fruit when ripe lemon colour w^{t} a cast of brown.' [SP]; 'Galaxa subspicata' [unknown]; [ink] 'Endeavours River' [JB]. 540×345/420.

Finished drawing: watercolours *r* [ink] 'James Miller Pinxt'; *v* [pencil] 'Galaxa subspicata' [unknown]. 535×350/435.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 9/218. 460×295/430; engraving proof *r* [pencil] 'Alyxia subspicata' [unknown]; [not in Britten]; col. engraving 1982 *BF*: pl. 207.

A5/239 **Eryatamia orientalis** (R. Brown) Turrill, *J. Proc. Linn. Soc. Bot.* **43**: 32 (1915).

Specimen: 2 sheets, Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 417–419 'Tabernaemontana citrifolia'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '38' [unknown]; *v* 'Flower white faux[?] yellow. tube pale citron colour buds more or less green accord^{g} to their age. leaves dark grass green above w^{t} yellow green veins below fresh green w^{t} prominent veins fruit yellow + orange' [SP]; 'Tabernemontana citrifolia' [unknown]; [ink] 'Endeavours River' [JB]. 540×355/335.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller. Pinx^{t} 1774.'; *v* [pencil] 'Tabernemontana citrifolia' [unknown]. 525×355/380.
Bacstrom, S. Ms.: 36.

A5/240 Parsonsia velutina R. Brown, *Prodr.*: 466 (1810).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 428–430 'Echites viridiflora'; Britten, J. 1901 *Ill.*: 61 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '30' [unknown]; *v* 'Echites viridiflora' [unknown]; [ink] 'Endeavours River' [JB]. 540×345/435.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}'; [pencil] 'outside hairy' [unknown]; 'hairy' [unknown]; *v* 'Echites viridiflora' [unknown]. 535×355/445.

Copper plate: [GS]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 7/156. 460×295/450; engraving proof *r* [pencil] 'Echites viridiflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 199; col. engraving 1982 *BF*: pl. 208.

ASCLEPIADACEAE

A5/241 Sarcostemma australe R. Brown, *Prodr.*: 463 (1810).

Specimen: Bustard Bay, Bay of Inlets, Palm Island, Cape Grafton, Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 416–417, 460–461 'Cynanchum aphyllum'; Britten, J. 1901 *Ill.*: 61 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '15' [unknown]; *v* 'Cynanchum aphyllum' [unknown]; '394' [unknown]; [ink] 'Endeavours River' [JB]. 470×285/370.

Finished drawing: watercolours *v* [pencil] 'Cynanchum aphyllum' [unknown]; 'End: Riv:' [unknown]. 530×360/430; see Carr, D.J. [Ed.] 1983 pl. 154 p. 162.

Copper plate: [FC]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/131. 460×295/430; engraving proof *r* [pencil] 'Cynanchum aphyllum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 200; col. engraving 1982 *BF*: pl. 209.

A5/242 **CYNANCHUM ERUBESCENS** R. Brown, *Mem. Wernerian nat. Hist. Soc.* **1**:45 (1811).

SPECIMENS: 2 sheets, 1 – Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:322–324 'Cynanchum macrocarpon'; Britten, J. 1901 *Ill.*:61 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '29' [unknown]; *v* 'The buds green ting'd at the points w^t purple, stalks & fruit pale fresh green leaves grass green w^t fine veins of lighter below. white green nerves prominent veins dark green.' [SP]; 'Cynanchum macrocarpum' [unknown]; 'Endeavour' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/375.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t: 1774.'; *v* [pencil] 'Cynanchum microcarpa' [unknown]. 530×350/440.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/130. 460×295/435; engraving proof *r* [pencil] 'Cynanchum macrocarpum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 201; col. engraving 1982 *BF*: pl. 210.

A5/243 **DISCHIDIA NUMMULARIA** R. Brown, *Prodr.*: 461 (1810).

SPECIMENS: 2 sheets, Endeavour River (1 – genus holotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:407–408, 454, **4**:575–576 'Asclepiadea nummularia'; Britten, J. 1901 *Ill.*: 62 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '70' [?] [unknown]; *v* 'Asclepiadea nummularia' [unknown]; [ink] 'Endeavours River' [JB]. 275×370/65.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t: 1774.'; *v* [pencil] 'Asclepiadea nummularia' [unknown]; 'End. R—' [unknown]. 360×540/65.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 11/255. 460×300/65; engraving proof *r* [pencil] 'Asclepioides numularia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 202; col. engraving 1982 *BF*: pl. 211.

A5/244 **HOYA AUSTRALIS** R. Brown ex Traill, *Trans. R. Hort. Soc.* **7**: 28 (1830).

SPECIMEN: 2 sheets, Cape Grafton, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**:454–456, **4**:574–575 'Asclepias crassifolia'; Britten, J. 1901 *Ill.*: 62 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '14' [unknown]; *v* 'The flower white with a speck of purple at the base of each petal. the calyx & peduncle white.' [SP]; 'Asclepias crassifolia' [unknown]; '181' [unknown]; 'R' [unknown]; [ink] 'Cape Grafton' [JB]. 470×285/365.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt'; *v* [pencil] 'Asclepias crassifolia' [unknown]; 'Cape Grafton' [unknown]. 540×350/365; see Carr, D.J. [Ed.] 1983 pl. 152 p. 161.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/132. 460×295/370; engraving proof *r* [pencil] 'Asclepias crassifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 203; col. engraving 1982 *BF*: pl. 212.

LOGANIACEAE

A5/245 Mitrasacme polymorpha R. Brown, *Prodr.*: 452 (1810).

Specimen: 3 sheets, Botany Bay, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 6–7 'Exacoides tenella'; Britten, J. 1901 *Ill.*: 62 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '33' [unknown]; *v* 'the flower white' [SP]; 'Exacoedes tenella' [unknown]; '30' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/240.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t} 1773.'; *v* [pencil] 'Exacoidies tenella' [unknown]. 535×350/280.

Copper plate: [DM]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 4/80. 460×295/280; engraving proof *r* [pencil] 'Exacoides tenella' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 204; col. engraving 1982 *BF*: pl. 213.

A5/246 Mitrasacme ambigua R. Brown, *Prodr.*: 454 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 293–294 'Exacum junceum'; Britten, J. 1901 *Ill.*: 63 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '38' [?] [unknown]; *v* 'The flower white ting'd w^{t} pale purple below. stalks & leaves pale green calyx pale green with the dentes brown' [SP]; 'Exacum junceum' [unknown]; [ink] 'Endeavours river' [JB]. 370×265/230.

Finished drawing: watercolours *r* [pencil] 'Callicarpa pendunculata Engraving the drawings of systematic order, with the sketch' [unknown]; *v* 'Exacum junceum' [unknown]. 540×360/210.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 8/189. 455×295/210; engraving proof *r* [pencil] 'Exacum junceum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 205; col. engraving 1982 *BF*: pl. 214.

A5/247 Mitrasacme connata R. Brown, *Prodr.*: 454 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 424–425 'Exacoides grandiflora'; Britten, J. 1901 *Ill.*: 63 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Exacoides grandiflora' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/335.

Finished drawing: watercolours *v* [pencil] 'Exacoides grandiflora' [unknown]. 540×350/420.

Copper plate: [DM]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 4/79. 460×295/410; engraving proof *r* [pencil] 'Exacoides grandiflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 206; col. engraving 1982 *BF*: pl. 215.

A5/248 **Mitrasacme stellata** R. Brown, *Prodr.*: 454 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 559–561 'Exacoides stellata'; Britten, J. 1901 *Ill.*: 63 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '31' [unknown]; *v* 'the flowers white' [SP]; 'Exacoides stellata' [unknown]; [ink] 'Endeavours River' [JB]. 370×260/330.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t} 1773.'; *v* [pencil] 'Exacoides stillata' [unknown]. 540×360/325.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 8/197. 460×295/325; engraving proof *r* [pencil] 'Exacoides stellata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 207; col. engraving 1982 *BF*: pl. 216.

A5/249a **Mitrasacme laricifolia** R. Brown, *Prodr.*: 453 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 282–283 'Exacoides laricifolia'; Britten, J. 1901 *Ill.*: 63 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '33' [unknown]; *v* 'the leaves fresh green. flowers white' [SP]; 'Exacoides laricifolia' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/65.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773..'; *v* [pencil] 'Exacoides [[Pygmaea]] laricifolia' [unknown]. 535×300/80.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 8/178. 460×295/80; engraving proof *r* [pencil] 'Exacoides laricifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 208 [together with 208B]; col. engraving 1982 *BF*: pl. 217.

A5/249b **Mitrasacme pygmaea** R. Brown, *Prodr.*: 453 (1810).

Specimen: Bustard Bay – but also labelled Bay of Inlets, Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 110–111 'Exacoides pygmaea'; Britten, J. 1901 *Ill.*: 64 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white the stalks pale green ting'd w^{t} red the leaves grass green.' [SP]; 'Exacoides pygmaea' [unknown]; '102' [unknown]; [ink] 'Bustard Bay' [JB]. 370×265/100.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773..'; *v* [pencil] 'Exacoides pygmaea' [unknown]. 540×365/110.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 9/219. 455×295/115; engraving proof *r* [pencil] 'Exacoides pygmaea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 208B [together with 208A]; col. engraving 1982 *BF*: pl. 218.

GENTIANACEAE

A5/250 **CANSCORA DIFFUSA** (Vahl) R. Brown ex Roemer & Schultes, *Syst. veg.* **3**: 301 (1818).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 302–303 'Scoparioides [[Exacoides]] trinervia'; Britten, J. 1901 *Ill.*: 64 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '40' [unknown]; *v* 'The flowers pale carnation, leaves stalks & calyx fresh green.' [SP]; 'Scoparioides trinervia' [unknown]; [ink] 'Endeavours River' [JB]. 295×235/140.

FINISHED DRAWING: watercolours *v* [pencil] 'Scoparioides trinervia' [unknown]; 'Endeavours river' [unknown]. 545×350/145.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 9/204. 455×295/140; engraving proof *r* [pencil] 'Scoparioides trinervia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 209; col. engraving 1982 *BF*: pl. 219.

BORAGINACEAE

A6/251 **TOURNEFORTIA SARMENTOSA** Lamarck, *Tabl. encycl.* **1**: 416 (1792).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 463–464 'Tournefortia scandens'; Britten, J. 1901 *Ill.*: 64 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower white tube green. calyx. stalk & leaves above grass green w^t hollow veins the leaves below more white with prominent veins.' [SP]; 'Tournefortia scandens' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/400.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1774'; *v* [pencil] 'Tournefortia scandens.' [unknown]. 525×350/400.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 7/153. 460×295/400; engraving proof *r* [pencil] 'Tournefortia scandens' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 210; col. engraving 1982 *BF*: pl. 220.

A6/252 **TRICHODESMA ZEYLANICUM** (Burman f.) R. Brown, *Prodr.*: 496 (1810).

SPECIMEN: Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 187–188 'Borago erecta'; Britten, J. 1901 *Ill.*: 64 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '67' [unknown]; *v* 'The flower a pale ultramarine blue w^t a white vein in the middle, near which it is ting'd w^t crimson. the stile a dirty flowry white' [SP]; 'Borago erecta' [unknown]; '136' [unknown]; [ink] 'Thirsty Sound.' [JB]. 370×265/310.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick. Miller pinx:^{t} 1774.'; *v* [pencil] 'Borago erecta.' [unknown]. 530×350/325; see Carr, D.J. [Ed.] 1983 pl. 153 p. 161.

Copper plate: [D]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 9/223. 460×300/330; engraving proof *r* [pencil] 'Borago erecta' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 211; col. engraving 1982 *BF*: pl. 221.

CONVOLVULACEAE

A6/253 **Ipomoea species** (**Ipomoea longiflora** auct. non R. Brown 1810 [non Willdenow 1809]).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 324–325 'Convolvulus grandiflorus'; Britten, J. 1901 *Ill.*: 65 *pro descr.*

Outline drawing: pencil outlines; *r* [pencil] 'grass green' [SP]; '10' [unknown]; *v* 'Convolvulus grandis' [unknown]; 'The upper side of the flower, stamina & stile white the nerves on the underside ting'd w^t Crimson which fades away into the tube which is ting'd w^t green the upper side of the leaves grass w^t pale prominent veins the under side Glaucus & pale w^t dark veins & prom. nerves pet. stalk & calyx stain'd purple' [SP]; [ink] 'Endeavours River' [JB]. 540×355/485.

Finished drawing: watercolours *r* [ink] 'Convolvulus grandis' [unknown]; 'John Frederick Miller pinxt 1773.'; [pencil] '10' [unknown]. 535×360/460; see Carr, D.J. [Ed.] 1983 pl. 155 p. 163.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/99. 460×295/455; engraving proof *r* [pencil] 'Convolvulus grandis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 212; col. engraving 1982 *BF*: pl. 222.

A6/254 **Ipomoea indica** (Burman f.) Merrill, *Interpr. Herb. amboin.*: 445 (1917).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 514, 542–543 'Convolvulus multiflorus'; Britten, J. 1901 *Ill.*: 65 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '22' [unknown]; *v* 'the flower pale blue w^t a cast of pink appearing like lilac colour turning very pale at the tube which is white outside & in capsula fresh green at the edges & very pale green in the middle.' [SP]; 'Convolvulus multiflorus' [unknown]; [ink] 'Endeavours River' [JB]. 535×365/430.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1773.'; *v* [pencil] 'Convolvulus multiflorus' [unknown]. 535×360/440.

Copper plate: [JL]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 5/104. 457×295/430; engraving proof *r* [pencil] 'Convolvulus multiflorus' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 213; col. engraving 1982 *BF*: pl. 223.

A6/255 **Evolvulus alsinoides** var. **decumbens** (R. Brown) van Ooststrom, *Meded. bot. Mus. Rijks-Univ. Utrecht* **14**: 38 (1934).

Specimen: 3 sheets, 1 – Endeavour River, 2 – 3 – Bustard Bay, Bay of Inlets, Cape Grafton, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 143, **4**: 543–544 'Evolvulus decumbens'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '57' [?] [unknown]; *v* 'Flower ultramarine blue middling darkness star in the middle stamin & anth. white, the center of alb green.' [SP]; 'Evolvulus decumbens' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/220.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt. 1774'; *v* [pencil] 'Evolvulus decumbens' [unknown]. 535×355/240.
Bacstrom, S. Ms.: 42.

A6/256 **XENOSTEGIA TRIDENTATA** (Linnaeus) Austin & Staples, *Brittonia* **32** (4): 533 (1980).

SPECIMEN: 2 sheets, 1 – Bustard Bay, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 372–373 'Convolvulus hastulatus'; Britten, J. 1901 *Ill.*: 65 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '17' [unknown]; *v* 'Convolvulus hastulatus' [unknown]; 'Flowers white, calyx pale green a little ting'd w^{t} red, stalks pale green, leaves dark grass green.' [SP]; [ink] 'Endeavours River' [JB]. 370×265/260.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt'; *v* [pencil] 'Convolvulus hastatus' [unknown]. 540×360/290.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/97. 460×300/290; engraving proof *r* [pencil] 'Convolvulus hastulatus' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 214; col. engraving 1982 *BF.*: pl. 224.

A6/257 **LEPISTEMON URCEOLATUS** (R. Brown) F. Mueller, *Syst. census Austral. pl.*: 94 (1822).

SPECIMEN: 2 sheets, 1 – Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 325–327 'Convolvuloides asclepiadea'; Britten, J. 1901 *Ill.*: 65 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '2' [unknown]; *v* 'The flower white the nerves below & tube grey green' [SP]; 'Convolvulus asclepiadea' [unknown]; [ink] 'Endeavours River' [JB]. 550×365/385.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt.'; [pencil] '2' [unknown]; *v* 'Convolvulus asclepiodes' [unknown]. 545×355/390.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/85. 460×295/390; engraving proof *r* [pencil] 'Convolvulus asclepioides' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 215; col. engraving 1982 *BF*: pl. 225.

A6/258 **JACQUEMONTIA PANICULATA** (Burman f.) Hallier f., *Bot. Jb.* **16**: 541 (1893).

SPECIMEN: 2 sheets, Bay of Inlets, Palm Island.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 240–242 'Convolvulus micranthus'; Britten, J. 1901 *Ill.*: 66 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'I cannot find any specimens answering to this figure The specimens under this name have folia ovata non cordata The description says that stigmata are frerforinia [?] (Convolvuli) and that figure has stigma capitatum Platum (Ipomea)' [unknown]; *v* 'The flowers pale lilac ting'd w^{t} whitish green at the bottom stamina & a white.' [SP]; 'Convolvulus micranthus' [unknown]; 'Convolvulus micranthus' [unknown]; '165' [unknown]; [ink] 'Palm Island.' [JB]. 365×265/305.

Finished drawing: watercolours *r* [ink] 'James Miller pinx't'; [pencil] '6' [unknown]; *v* 'Convolvulus micranthus' [unknown]. 530×360/330.

Copper plate: [DM]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/89. 460×295/330; engraving proof *r* [pencil] 'Convolvulus micranthes' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 216; col. engraving 1983 *BF*: pl. 226.

A6/259 **Solanum viride** R. Brown, *Prodr.*: 445 (1810).

Specimen: Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 260, **3**: 317 'Solanum cymosum'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '97' [?] [unknown]; *v* 'Solanum cymosum' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/345.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1774.'; *v* [pencil] 'Solanum cymosum' [unknown]. 525×355/375.
Bacstrom, S. Ms.: 32.

SCROPHULARIACEAE

A6/260 **Mimulus uvedaliae** Bentham in de Candolle, *Prodr.* **10**: 369 (1846).

Specimen: 2 sheets, Endeavour River (isotypes).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 500–501 'Vandelliastrum caeruleum'; Britten, J. 1901 *Ill.*: 66 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Vandelliastrum caeruleum' [unknown]; [ink] 'Endeavours Rivers' [JB]. 370×265/205.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 540×365/235.

Copper plate: [GS]; Bacstrom, S. Ms.: 98; Brown, R. Ms.: 21/510. 460×295/235; engraving proof *r* [pencil] 'Vandelliastrum caeruleum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 217; col. engraving 1983 *BF*: pl. 227.

A6/261 **Adenosma coerulea** R. Brown, *Prodr.*: 443 (1810).

Specimen: Point Lookout (syntype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 584–585, 614–615 'Vandellioides odorata'; Britten, J. 1901 *Ill.*: 66 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'obtuse' [unknown]; '126' [?] [unknown]; *v* 'Vandellioides odorat' [unknown]; 'The flower pale violet colour the outside very pale the calyx leaves stalk & buds herbaceous green faintly vein'd' [SP]; 'PF' [?] [unknown]; [ink] 'Point Lookout' [JB]. 370×265/310.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'; [pencil] 'very little hairy' [unknown]. 545×365/350.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 98; Brown, R. Ms.: 22/543. 457×295/350; engraving proof *r* [pencil] 'Vandellioides odorata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 218; col. engraving 1983 *BF*: pl. 228.

A6/262 **LINDERNIA CRUSTACEA** (Linnaeus) F. Mueller, *Syst. census Austral. pl.*: 97 (1882).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 500–501 'Vandellioides caerulea'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '197' [?] [unknown]; *v* 'the leaves fresh green w^{t} holow veins below white green w^{t} dark green veins stalks fresh green' [SP]; 'Vandellioides caerulea' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/250.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 535×360/290.
Bacstrom, S. Ms.: 98.

A6/263 **LINDERNIA SUBULATA** R. Brown, *Prodr.*: 441 (1810).

SPECIMEN: 2 sheets, Endeavour River (syntypes).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 408–409 'Vandellioides albiflora'; Britten, J. 1901 *Ill.*: 67 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Vandellioides albiflora' [SP]; [ink] 'Endeavours River' [JB]. 370×265/175.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1778'. 540×360/180.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 98; Brown, R. Ms.: 20/491. 460×295/180; engraving proof *r* [pencil] 'Vandellioides albiflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 219; col. engraving 1983 *BF*: pl. 229.

NOTES: Parkinson coloured the upper lip *incarnatus* and the lower lip *albus* as described by Solander but Nodder has coloured both *incarnatus*.

A6/264 **CENTRANTHERA COCHINCHINENSIS** (Loureiro) Merrill, *Trans. Am. phil. Soc.*, new series, **24** (2): 39, in obs.: 353 (1935).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 269–270 'Digitalis hispidiuscula'; Britten, J. 1901 *Ill.*: 67 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Digitalis hispidiuscula' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/245.

Finished drawing: watercolours *r* [ink] ‘Fred^{k} Polydore Nodder. Pinx^{t} 1778’. 545×360/355; see Beaglehole, J.C. 1962 **2**: 24b; Carr, D.J. [Ed.] 1983 pl. 156 p. 164.

Copper plate: [DM]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 20/486. 460×300/355; engraving proof *r* [pencil] ‘Digitalis hispidiuscula’ [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 220; col. engraving 1983 *BF*: pl. 230.

A6/265 **BUCHNERA TETRAGONA** R. Brown, *Prodr.*: 437 (1810).

Specimen: 2 sheets, Endeavour River, Point Lookout (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 451–453 ‘Erinus tetragonus’; Britten, J. 1901 *Ill.*: 67 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘46’ [unknown]; *v* ‘the flowers white’ [SP]; ‘Erinus 4 genus’ [unknown]; ‘3010’ [?] [unknown]; [ink] ‘Endeavours River’ [JB]. 470×290/430.

Finished drawing: *r* [ink] ‘Fred^{k} Polydore Nodder. Pinx^{t} 1778’. 540×360/435.

Copper plate: [RB]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 21/506. 460×295/440; engraving proof *r* [pencil] ‘Erinus tetragonus’ [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 221; col. engraving 1983 *BF*: pl. 231.

A6/266a **BUCHNERA LINEARIS** R. Brown, *Prodr.*: 437 (1810) var. ASPERATA (R. Brown) Bentham, *Fl. austral.* **4**: 515 (1868).

Specimen: 2 sheets, Bustard Bay, Bay of Inlets (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 112–113, **3**: 459 ‘Erinus asperatus’.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The flowers lilac colour. leaves & stalks dirty green capsula dark brown’ [SP]; ‘Erinus asperatus’ [unknown]; ‘103’ [unknown]; [ink] ‘Bustard Bay’ [JB]. 370×265/250. Bacstrom, S. Ms.: 96.

A6/266b **BUCHNERA LINEARIS** R. Brown, *Prodr.*: 437 (1810) var. ASPERATA (R. Brown) Bentham, *Fl. Austral.* **4**: 515 (1868).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 112–113, **3**: 459 ‘Erinus asperatus’.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘45’ [unknown]; *v* ‘The flowers pale lilac colour.’ [SP]; ‘Erinus asperatus’ [unknown]; ‘381’ [unknown]; [ink] ‘Endeavours River’ [JB]. 470×290/410. Bacstrom, S. Ms.: 96.

A6/267 **BUCHNERA TENELLA** R. Brown, *Prodr.*: 437 (1810).

Specimen: Endeavour River (mixed with 266).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 513 ‘Erinus distans’.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘120’ [unknown]; *v* ‘Flower white, faux & underside of the tube pale green, stalks, calyx & capsula pale green stain’d w^{t} red leaves grass green.’ [SP]; ‘Erinus distans’ [unknown]; [ink] ‘Endeavours River’ [JB]. 370×265/255. Bacstrom, S. Ms.: 96.

LENTIBULARIACEAE

A6/268a Utricularia minutissima Vahl, *Enum. pl.* **1**: 204 (1804).

Specimen: Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 244–245 'Utricularia pygmaea'; Solander, D. Slip Catalogue 1: 715–719; Britten, J. 1901 *Ill.*: 68 *pro descr.*

Finished drawing: watercolours [SP]; *r* [pencil] 'Utricularia pygmaea' [unknown]; '6' [unknown]; *v* 'The heell & under labium delicate purple the two side ones the same but paler the upper one almost white two spots of white at the bottom of the lower labium. stalk & bud redish green' [SP]; 'R' [unknown]; '186' [unknown]; [ink] 'Cape Grafton' [JB]. 370×265/55; 2 sheets of anatomical drawings are pasted onto Parkinson's drawing: 1 – pen and ink wash *r* [ink] 'John Fred Miller 1775'; [pencil] 'Utricularia pygmaea' [unknown]. 125×140/25; 2 – pen and pencil *r* [pencil] 'Utricularia pygmaea' [unknown]. 105×110/25.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/526. 460×295/55; engraving proof *r* [pencil] 'Utricularia pygmaea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 222A [together with 222B and 222C]; col. engraving 1983 *BF*: pl. 232.

A6/268b Utricularia albiflora Banks & Solander ex R. Brown, *Prodr.*: 431 (1810).

Specimen: Point Lookout (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 594–595 'Utricularia albiflora'; Solander, D. Slip Catalogue 1: 731–734; Britten, J. 1901 *Ill.*: 68 *pro descr.*

Outline drawing: pencil outlines [SP]; *r* [pencil] 'Utricularia albiflora' [unknown]; '16' [unknown]; *v* 'The flower white ting'd w^{t} citron col^{r} on the palate, the stalk & calyx green the calyx ting^{d} w^{t} grey purple.' [SP]; 'PF' [unknown]; [ink] 'Point Lookout' [JB]. 370×265/40; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [ink] 'John Fred Miller 1775'; [pencil] 'Utricularia albiflora' [unknown]. 135×135/20.

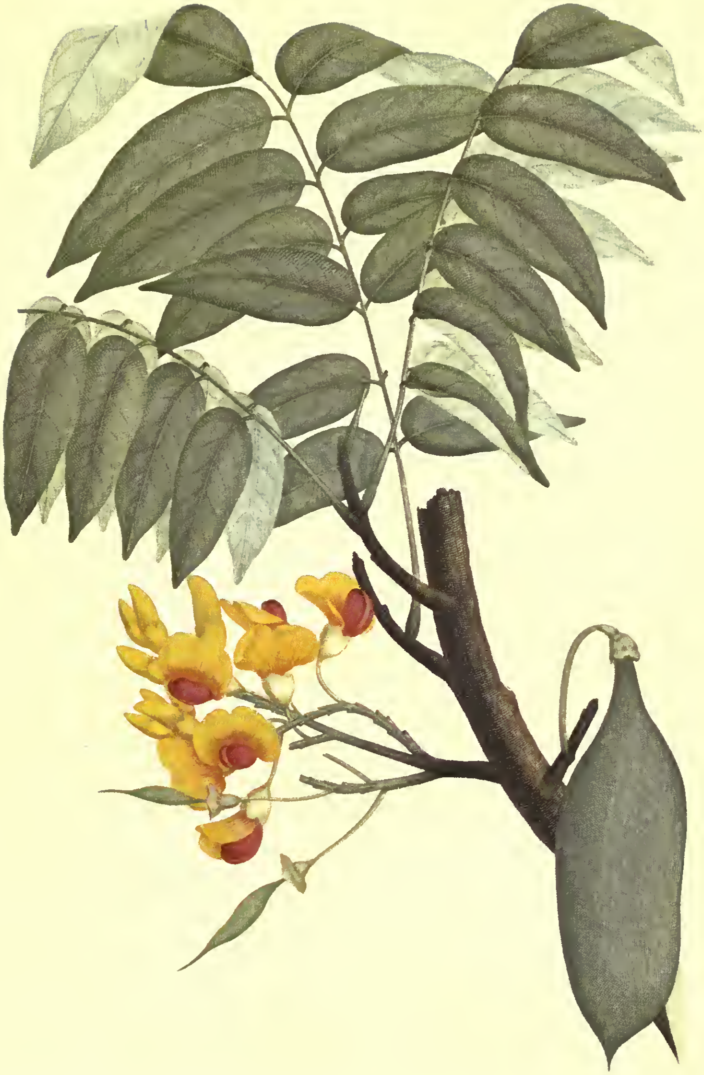
Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/529. 460×295/40; engraving proof *r* [pencil] 'Utricularia albiflora' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 222B [together with 222A and 222C]; col. engraving 1983 *BF*: pl. 233.

A6/268c Utricularia caerulea Linnaeus, *Sp. pl.* **1**: 18 (1753).

Specimen: Cape Grafton.

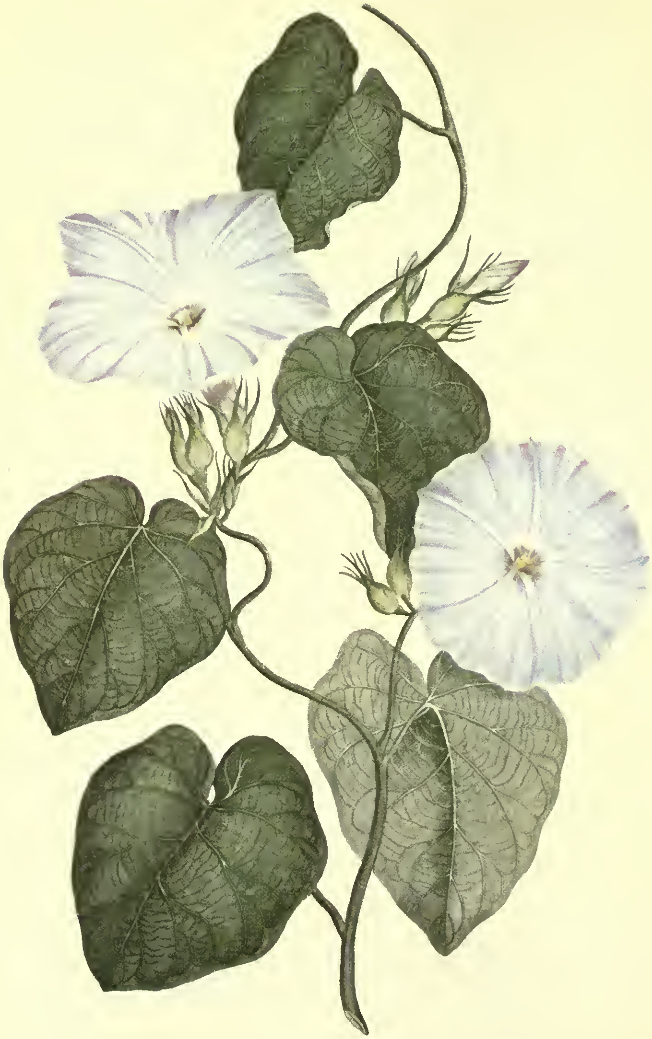
Manuscript: Solander, D. Pl. Nov. Holl. **2**: 246 'Utricularia violacea'; Solander, D. Slip Catalogue 1: 695–698; Britten, J. 1901 *Ill.*: 71 *pro descr.*; see also Plate 227B.

Finished drawing: watercolours [SP]; *r* [pencil] 'Utricularia violacea'; *v* 'The flower a middling dark blue purple the calyx pale green ting'd w^{t} purple behind leaves pale green stalk dirty purple.' [SP]. 'R' [unknown]; '185' [unknown]; [ink] 'Cape Grafton' [JB]. 370×265/75; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [ink] 'John Fred. Miller 1775'; [pencil] 'Utricularia violacea' [unknown]. 125×190/20.



A2/95 *Castanospermum australe*

[Plate 84 from *Banks' Florilegium*]
gathered Endeavour River, Australia, 17 June–4 August 1770
line engraving by G. Sibelius after Sydney Parkinson (1770) & F. P. Nodder (1779)
460 × 300 mm



A6/254 *Ipomoea indica*

[Plate 223 from *Banks' Florilegium*]
gathered Endeavour River, Australia, 17 June–4 August 1770
line engraving by J. Lee after Sydney Parkinson (1770) & J. F. Miller (1773)
460 × 300 mm

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/527. 460×295/70; engraving proof *r* [pencil] 'Utricularia violacea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 222C [together with 222A and 222B]; col. engraving 1983 *BF*: pl. 234.

A6/269a **UTRICULARIA CHRYSANTHA** R. Brown, *Prodr.*: 432 (1810).

Specimen: Point Lookout (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 582–584 'Utricularia aurea'; Solander, D. Slip Catalogue **1**: 765–770; Britten, J. 1901 *Ill.*: 68 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Utricularia aurea' [unknown]; *v* 'The flower yellow somewhat pale the top of the under labia rich gold colour the stalk green roots white' [SP]; 'PT' [?] [unknown]; [ink] 'Point Lookout.' [JB]. 370×265/210; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [ink] 'John F.rd. Miller 1775.'; [pencil] 'Utricularia aurea' [unknown]. 130×190/25.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/530. 460×295/210; engraving proof *r* [pencil] 'Utricularia aurea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 223A [together with 223B]; col. engraving 1983 *BF*: pl. 235.

A6/269b **UTRICULARIA CHRYSANTHA** R. Brown, *Prodr.*: 432 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 516–518 'Utricularia flava'; Solander, D. Slip Catalogue **1**: 759–763; Britten, J. 1901 *Ill.*: 69 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Utricularia flava' [unknown]; '5' [unknown]; *v* 'The stalks reddish green' [SP]; 'Utricularia flava' [unknown]; [ink] 'Endeavours River' [JB]. 375×265/145; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [ink] 'John Fred^{k} Miller 1774'; [pencil] 'Utricularia flava' [unknown]. 145×135/20.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/532. 460×295/135; engraving proof *r* [pencil] 'Utricularia flava' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 223B [together with 223A]; col. engraving 1983 *BF*: pl. 236.

A6/270 **UTRICULARIA CHRYSANTHA** R. Brown, *Prodr.*: 432 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 303–304, **4**: 526–528 'Utricularia lutea'; Solander, D. Slip Catalogue **1**: 753–757; Britten, J. 1901 *Ill.*: 69 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Utricularia lutea' [unknown]; *v* [ink] 'Endeavours River' [JB]. 370×265/215; 2 sheets of anatomical drawings are pasted onto Parkinson's drawing: 1 – ink and pencil *r* [pencil] 'Utricularia lutea' [unknown]. 45×100/25; 2 – pen and ink wash *r* [ink] 'John Fred Miller 1775'; [pencil] 'Utricularia lutea' [unknown]. 125×115/25.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/528. 455×295/215; engraving proof *r* [pencil] 'Utricularia lutea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 224; col. engraving 1983 *BF*: pl. 237.

A6/271a UTRICULARIA ULIGINOSA Vahl, *Enum. pl.* **1**: 203 (1804).

SPECIMEN: 3 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 247–248, **3**: 304, **4**: 519–520 'Utricularia graminifolia'; Solander, D. Slip Catalogue **1**: 743–748; Britten, J. 1901 *Ill.*: 69 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'blue green' [SP]; '10' [unknown]; 'Utricularia graminifolia' [unknown]; 'A' [unknown]; *v* 'The stalks & leaves very pale herbaceous green the old capsulæ whitish.' [SP]; 'Utricularia graminifolia' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/290; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [ink] 'John Fred^{k} Miller 1775.'; [pencil] 'Utricularia graminifolia' [unknown]; 'A' [unknown]. 65×150/15.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/534. 460×300/285; engraving proof *r* [pencil] 'Utricularia graminifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 225; col. engraving 1983 *BF*: pl. 238.

A6/271b UTRICULARIA ULIGINOSA Vahl, *Enum. pl.* **1**: 203 (1804).

SPECIMEN: see A6 271a.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 594–595 'Utricularia graminifolia'; Solander, D. Slip Catalogue **1**: 743–748; Britten, J. 1901 *Ill.*: 69 *pro descr.*

FINISHED DRAWING: watercolours *r* [pencil] 'Utricularia graminifolia'; 'B' [unknown]; *v* 'In the' [SP]; 'The Calyx persistance pale green stalk & leaves fresh green.' [SP]; '187' [unknown]; 'R' [unknown]; [ink] 'Cape Grafton' [JB]. 370×265/115; 2 sheets of anatomical drawings are pasted onto Parkinson's drawing: 1 – pen and ink wash *r* [ink] 'John Fred^{k} Miller 1775:'; [pencil] 'Utricularia graminifolia' [unknown]; 'B' [unknown]. 120×180/25; 2 – pencil *r* [pencil] 'Utricularia graminifolia' [unknown]; 'B' [unknown]. 45×85/25.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/534. 460×300/115; engraving proof *r* [pencil] 'Utricularia graminifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 225; col. engraving 1983 *BF*: pl. 238.

A6/272a UTRICULARIA BILOBA R. Brown, *Prodr.*: 432 (1810).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 46 'Utricularia filiformis'; Solander, D. Slip Catalogue **1**: 727–729; Britten, J. 1901 *Ill.*: 70 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'Utricularia filiformis Ms' [unknown]; *v* 'The flower pale blue w^{t} a cast of purple the nectarium greenish white w^{t} 2 stripes of blue on the side the middle of the under part of the labium white & on the back 2 spots. the stalks &c green staind w^{t} red.' [SP]; '44' [unknown]; [ink] [[Endeavours River]] [JB]; 'Botany Bay' [unknown]. 370×265/20; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pencil, pen and ink wash *r* [ink] 'John Fred Miller 1775'; [pencil] 'Utricularia filiformis Ms' [unknown]. 165×140/25.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 25/602. 300×465/215; engraving proof *r* [pencil] 'Utricularia filiformis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 226A [together with 226B]; col. engraving 1983 *BF*: pl. 239.

A6/272b Utricularia limosa Banks & Solander ex R. Brown, *Prodr.*: 432 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 518–519 'Utricularia limosa'; Solander, D. Slip Catalogue **1**: 701–705; Britten, J. 1901 *Ill.*: 70 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Utricularia limosa' [unknown]; *v* 'The upper labium white the lower one pale violet white in the middle the heel white ting'^{d} w^{t} violet the calyx & peduncle red-green stalk green.' [SP]; 'limosa' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/240; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [ink] 'J.F. Miller. 1775.'; '12' [unknown]; [pencil] 'Utricularia limosa' [unknown]. 90×120/20.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/533. 460×300/240; engraving proof *r* [pencil] 'Utricularia limosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 226B [together with 226A]; col. engraving 1983 *BF*: pl. 240.

A6/273a Utricularia caerulea Linnaeus, *Sp. pl.* **1**: 18 (1753).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 524–526 'Utricularia viminea'; Solander, D. Slip Catalogue **1**: 721–726; Britten. J. 1901 *Ill.*: 71 *pro descr.*; see also plate 222C.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Utricularia viminea' [unknown]; *v* 'The stalks grass green.' [SP]; 'Utricularia pallida viminea' [unknown]; [ink] 'Endeavours River' [JB]. 375×265/180; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pen and ink wash *r* [ink] 'John Fred Miller 1775'; [pencil] 'Utricularia viminea' [unknown]. 130×125/15.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/535. 460×295/200; engraving proof *r* [pencil] 'Utricularia viminea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 227 [together with A6/273b]; col. engraving 1983 *BF*: pl. 241.

A6/273b Utricularia caerulea Linnaeus, *Sp. pl.* **1**: 18 (1753).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **5**: 520–521 'Utricularia juncea'; Solander, D. Slip Catalogue **1**: 749–752; Britten, J. 1901 *Ill.*: 70 *pro descr.*; see also plate 222C.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Utricularia juncea' [unknown]; *v* 'Utricularia juncea' [unknown]; [ink] 'Endeavours river' [JB]. 370×265/240; 1 sheet of anatomical drawings is pasted onto Parkinson's drawing: pencil, pen and ink wash *r* [ink] 'John Fred^{k} Miller 1775'; [pencil] 'Utricularia juncea' [unknown]. 120×125/15.

Copper plate: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 22/531. 460×300/245; engraving proof *r* [pencil] 'Utricularia juncea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 227 [together with A6/273a]; col. engraving 1983 *BF*: pl. 242.

BIGNONIACEAE

A6/274 **Pandorea pandorana** (Andrews) van Steenis, *Bull. Jard. bot. Buitenz.*, sér. 3, **10**: 198 (1928).

Specimen: 2 sheets, Botany Bay, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 109–110, **3**: 357–358 'Bignonia floribunda'; Britten, J. 1901 *Ill.*: 71 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '44' [unknown]; 'obtuse' 'Brow' [?] [unknown]; *v* 'The flower white the inside stript w^{t} purple. the leaves grass green somewhat glaucus below the young stalks pale green. Capsula fresh green speck'd w^{t} white.' [SP]; 'Bignonia floribunda' [unknown]; '113' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×290/375.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, Pinx^{t} 1778'; [pencil] 'too long' 'too long' 'quite rounded' 'The terminal leaves broader at base' [unknown]. 540×360/415; see Carr, D.J. [Ed.] 1983 pl. 159 p. 166.

Copper plate: [DM]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 28/683 [?]; [no engraving proof]; lithograph Britten, J. 1901 *Ill.*: pl. 228; col. engraving 1983 *BF*: pl. 243.

A6/275 **Deplanchea tetraphylla** (R. Brown) F. Mueller, *Second syst. census Austral. pl.*: 167 (1889).

Specimen: 2 sheets, Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 442–446 'Duplanthera tetraphylla'; Britten, J. 1901 *Ill.*: 72 *pro descr.*; 1973 *CF*: pl. 22 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '87' [unknown]; *v* 'Duplanthera 4-phylla' [unknown]; [ink] 'Endeavours River' [JB]. 545×360/405.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 545×355/440.

Copper plate: [DM]; Bacstrom, S. Ms.: 98; Brown, R. Ms.: 22/544. 455×295/430; engraving proof *r* [pencil] 'Duplanthera tetraphyla' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 229; engraving 1973 *CF*: pl. 22; col. engraving 1983 *BF*: pl. 244.

PEDALIACEAE

A6/276 **Josephinia imperatricis** Ventenat, *Jard. Malm.* **2**: t. 67 (1804).

Specimen: Lizard Island, Islands of Cape Fear.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 589–591 'Pedalioides tribulus'; Britten, J. 1901 *Ill.*: 72 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '188' [unknown]; *v* 'The petala on the inside delicate pale crimson the lower labia deep crimson at the edge & vein'd w^{t} deep [?] the outside very pale.' [SP]; 'Pedalioides tribulus' [unknown]; 'L I' [unknown]; [ink] 'Lizard [?] Island' [JB]. 545×355/425.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'; [pencil] 'The stem very little square' [unknown]. 540×360/430.

Copper plate: [GS]; Bacstrom, S. Ms.: 98; Brown, R. Ms.: 21/511. 460×300/425; engraving proof *r* [pencil] 'longer' [unknown]; 'Pedalioides tribulus' [unknown]; 'G Sibelius'; lithograph Britten, J. 1901 *Ill.*: pl. 230; col. engraving 1983 *BF*: pl. 245.

ACANTHACEAE

A6/277 **Nelsonia rotundifolia** R. Brown, *Prodr.*: 481 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 308–309 'Diantheroides humifusa'; Solander, D. Slip Catalogue **I**: 643–646; Britten, J. 1901 *Ill.*: 72 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '20' [unknown]; *v* 'The flowers white.' [SP]; 'The Branches are longer – more seeds in the Capsula & the Disspermeatum [?] shown' [unknown]; 'Dianthera humifusa' [unknown]; [ink] 'Endeavours River' [JB]. 265×365/125.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773'; 'Dianthera humifusa' [unknown]. 360×535/125.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 2/28. 295×455/120; engraving proof *r* [pencil] 'Justicia humifusa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 231; col. engraving 1983 *BF*: pl. 246.

A6/278 **Hygrophila salicifolia** (Vahl) Nees von Essenbeck in Wallich, *Pl. As. Rar.* **3**: 81 (1832).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 390–391 'Ruellia angustifolia'; Britten, J. 1901 *Ill.*: 73 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'pale violet' 'pale violet' 'greenish' [SP]; *v* 'The leaves above grass green w^{t} prominent veins below pale glaucus w^{t} dark veins stalk & calyx ting'd w^{t} red.' [SP]; 'Ruellia angustifolia' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/235.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1778'. 540×360/240.

Copper plate: [GS]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 21/507. 460×295/235; engraving proof *r* [pencil] 'Ruellia angustifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 232; col. engraving 1983 *BF*: pl. 247.

A6/279 **Acanthus ilicifolius** Linnaeus subsp. **orientalis** Bremekamp, *Verh. K. ned. Akad. Wet.*, series C, **58** (3): 300 (1955).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 387–389 'Acanthus Hystrix'; Solander, D. Slip Catalogue **XIII.**: 767–768.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '86' [unknown]; *v* 'The upper part of the petal purple blue the lower part greenish white the stamina white ting'd w^t brown anthera Chacolate colour edg'd w^t white hair – buds purple blue at the points leaves above dark grass green w^t hollow veins the nerve light yellow green below fresh green w^t narrow dark veins, the nerve very light stalks & calicae pale green' [SP]; 'Acanthus Hystrix' [unknown]; [ink] 'Endeavours River' [JB]. 545×370/460.
Bacstrom, S. Ms.: 98.

A6/280 **JUSTICIA JUNCEA** R. Brown, *Prodr.*: 476 (1810).

SPECIMEN: Bay of Inlets.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 167–168, 173–174 'Dianthera juncea'; Solander, D. Slip Catalogue **1**: 525–528; Britten, J. 1901 *Ill.*: 73 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '2' [unknown]; 'Justicia juncea MS' [unknown]; *v* 'The under labia of the flower a pale red purple white at the base & stript crimson the Calyx & stalks dark green leaves pale yellow green w^t high veins' [SP]; '144' [unknown]; 'Dianthera juncea' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×290/370.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t 1773.'; 'Dianthera juncea.' [unknown]. 545×360/370.

COPPER PLATE: [TS]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 2/26. 455×300/370; engraving proof *r* [pencil] 'Justicia juncea' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 233; col. engraving 1983 *BF*: pl. 248.

A6/281 **JUSTICIA SPECIES** (**JUSTICIA PROCUMBENS** auct. non Linnaeus).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 469–470 'Dianthera hispida'; Solander, D. Slip Catalogue **1**: 521–524; Britten, J. 1901 *Ill.*: 73 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '19' [unknown]; 'Justicia hispida MS' [unknown]; *v* 'flower white' [SP]; 'Dianthera hispida' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/270.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1773.'; 'Dianthera hispida.' [unknown]. 530×360/280.

COPPER PLATE: [TS]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 2/27. 455×295/280; engraving proof *r* [pencil] 'Justicia hispida' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 234; col. engraving 1983 *BF*: pl. 249.

A6/282 **PSEUDERANTHEMUM VARIABILE** (R. Brown) Radlkofer ex Lindau, *Natürl. Planzenfam.* **4** (3b): 330 (1895).

SPECIMEN: 2 sheets, 1 – Bustard Bay, Endeavour River, 2 – Thirsty Sound.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 119 'Justicia umbratilis'; Solander, D. Slip Catalogue **1**: 617–620; Britten, J. 1901 *Ill.*: 74 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Justicia umbratilis MS' [unknown]; *v* 'The flowers white anthera coffee colour the spots on the lower petala purple.' [SP]; '105' [unknown]; 'Justicia umbratilis' [unknown]; [ink] 'Thirsty Sound' [JB]. 370×265/260.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1773.'; 'Justicia umbratilis.' [unknown]. 535×360/250; see Carr, D.J. [Ed.] 1983 pl. 157 p. 164.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/22. 455×300/250; engraving proof *r* [pencil] 'Justicia umbratilis' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 235; col. engraving 1983 *BF*: pl. 250.

MYOPORACEAE

A6/283 **Myoporum acuminatum** R. Brown, *Prodr.*: 515 (1810).

Specimen: Bustard Bay, Palm Island.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 131 'Myoporum caecum'; Britten, J. 1901 *Ill.*: 74 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '47' [unknown]; *v* 'The flowers white w^{t} some small spots of purple. the berries a shin^{y} blue purple' [SP]; 'Myoporum caecum' [unknown]; '109' [unknown]; [ink] 'Bustard Bay.' [JB]. 470×290/380.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 545×360/380.

Copper plate: [RB]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 21/508. 460×360/380; engraving proof *r* [pencil] 'Myoporum caecum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 236; col. engraving 1983 *BF*: pl. 251.

VERBENACEAE

A6/284 **Callicarpa pedunculata** R. Brown, *Prodr.*: 513 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 292, 296 'Callicarpa pedunculata'; Britten, J. 1901 *Ill.*: 74 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The berries when ripe fine violet colour' [SP]; 'Callicarpa pedunculata' [unknown]; [ink] 'Endeavours River' [JB]. 545×355/395.

Finished drawing: watercolours *v* [pencil] 'Caliscarpa pedunculata' [unknown]. 535×360/395.

Copper plate: [WT]; Bacstrom, S. Ms.: 22; Brown R. Ms.: 3/65. 460×295/390; engraving proof *r* [pencil] 'Callicarpa pedunculata' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 237; col. engraving 1983 *BF*: pl. 252.

A6/285 **Premna integrifolia** Linnaeus, *Mant. pl.* **2**: 252 (1771).

Specimen: 2 sheets, 1 – Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **2**:257–258 'Lomatia diffusa'; Solander, D. Slip Catalogue **xiii**: 501–502.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers when blown white. anthera dark brown the leaves above vivid grass green vein'd w^{t} paler below somewhat glaucus w^{t} prominent veins' [SP]; 'Premna [[Lomatia]] diffusa' [unknown]; 'R' [unknown]; '176' [unknown]; [ink] 'Cape Grafton' [JB]. 540×360/375.
Bacstrom, S. Ms.: 96.

A6/286 Gmelina macrophylla (R. Brown) Bentham, *Fl. austral.* **5**:65 (1870).

Specimen: 2 sheets, Cape Grafton (syntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **2**:249–252, 257–258 'Ephielis simplicifolia'; Britten, J. 1901 *Ill.*: 74 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'old pls [?] Square' [unknown]; 'The 3 upper petala very pale lilac under petala purple w^{t} 2 spotts of yellow at the base stamina & a white.' [SP]; 'Ephielis simplicifolia' [unknown]; 'R' [unknown]; '179' [unknown]; [ink] 'Cape Grafton' [JB]. 540×355/445.

Finished drawing: watercolours *r* [pencil] 'to be made Sep' [unknown]. 540×355/440.

Copper plate: [GS]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 20/487. 460×300/445; engraving proof *r* [pencil] 'G. Sibelius engr' [unknown]; 'Ephielis simplicifolia' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 238; col. engraving 1983 *BF*: pl. 253.

A6/287 Clerodendrum floribundum R. Brown, *Prodr.*: 511 (1810).

Specimen: 4 sheets, Endeavour River, Bay of Inlets, Palm Island. There are also 2 sheets labelled *Volkameria latifolia* from Endeavour River and 4 sheets labelled *V. media* or *Clerodendrum medium* from Cape Grafton and Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**:183–184, 232 'Volkameria insectorum'; Britten, J. 1901 *Ill.*: 75 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white anthera brown stile ting'd w^{t} green.' [SP]; 'P' [unknown]; 'Volkameria insectorum' [unknown]; '173' [unknown]; [ink] 'Palm Island.' [JB]. 545×360/380.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1778'. 545×360/435; see Beaglehole, J.C. 1962 **2**: pl. 23; Carr, D.J. [Ed.] 1983 pl. 160 p. 167.

Copper plate: [GS]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 20/489. 460×300/430; 2 engraving proofs: 1 – *r* [ink] 'Volkameria insectorum' 'G:^{d} Sibelius'; [pencil] 'flat' 'flat' [unknown]; 2 – *r* 'Volkameria insectorum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 239; col. engraving 1983 *BF*: pl. 254.

A6/288 Clerodendrum inerme (Linnaeus) Gaertner, *Fruct. Sem. pl.* **1**:271 (1788).

Specimen: 2 sheets, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **1**:172–173 'Volkameria inermis'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '50' [unknown]; *v* 'The petala on the upper side white ting'd at the base w^t crimson tube underside of the petala, stamina & stile purple Crimson calyx ting'd w^t purple leaves vivid grass green [[w^t below]] & w^t small hollow veins' [SP]; '3' [unknown]; '137' [unknown]; 'Volkameria inermis' [?] [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×290/330.
Bacstrom, S. Ms.: 96.

A6/289 **Vitex trifolia** Linnaeus, *Sp. pl.*: 638 (1753).

Specimen: 2 sheets, 1 – Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 166 'Vitex trifolia'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers a purple blue somewhate pale the buds & underside of the leaves-a whitish-mealy green the upperside grass green vein'd with lighter the stalks brownish' [SP]; '3' [unknown]; '153' [unknown]; 'Vitex trifolia' [unknown]; [ink] 'Thirsty Sound' [JB]. 545×355/430.
Bacstrom, S. Ms.: 96.

A6/289A **Vitex rotundifolia** Linnaeus f., *Suppl. pl.*: 294 (1782).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 485–486 'Vitex simplicifolius'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower on the inside violet colour on the outside very pale.' [SP]; 'Vitex simplicifolia' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/295.
Bacstrom, S. Ms.: 96.

A6/290 **Avicennia marina** (Forsskål) Vierhapper, *Denkschr. Akad. Wiss. Wien.* **71**: 435 (1907).

Specimen: Bustard Bay, Bay of Inlets, Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 146–148 'Avicennia resinifera'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Obs. Only a variety of the Avicennia resinifera Nov. Zel and perhaps only a variety of the avicenna tormentosa (fr. Rheed Mal **4**: 4–45 and Specimina Brown' [unknown]; '121' [unknown]; 'Avicennia resinifera' [unknown]; [ink] 'Bustard Bay.' [JB]. 545×360/300.
Bacstrom, S. Ms.: 98.

LABIATAE

A6/291 **Plectranthus parviflorus** Willdenow, *Hort. berol.*: t. 65 (1806).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 17–19 'Ocymum scutellarioides'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '48' [unknown]; *v* 'Ocymum scutellarioides' [unknown]; 'The upper labium of the flower pale ultramarine blue w^{t} 3 spots of darker the rest of the flower white the stamina ting'd w^{t} blue the stalks a tender-green colour stain'd w^{t} purple the leaves fresh green vein'd like balm' [SP]; '26' [unknown]; 'Scutellariod' [unknown]; [ink] 'Botany Bay' [JB]. 470×290/375.
Bacstrom, S. Ms.: 94.

A6/292 **Plectranthus apreptus** S.T. Blake, *Contr. Qd Herb.* **9**: 47 (1971).

Specimen: 3 sheets, 1 – Cape Grafton, 2 – 3*, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 251, 261 'Ocymum inodorum'; Britten, J. 1901 *Ill.*: 75 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '49' [unknown]; 'broad' 'bright blue' 'flat' 'dark blue' 'pale blue' 'dark blue' [SP]; *v* 'R' [unknown]; '182' [unknown]; 'Ocymum' [unknown]; 'Ocymum inodorum' [unknown]; [ink] 'Cape Grafton' [JB]. 470×290/365.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1778'; [pencil] 'The under Divisions of 1 calyx too broad' 'angles more obtuse' [unknown]. 540×350/360.

Copper plate: [RB]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 23/569. 460×300/365; engraving proof *r* [pencil] 'Ocymum inodorum' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 240; col. engraving 1983 *BF*: pl. 255.

A6/293 **Plectranthus graveolens** R. Brown, *Prodr.*: 506 (1810).

Specimen: 2 sheets, 1 – Bustard Bay, Endeavour River, 2 – Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. Systematic Index **4**: 33 [index entry only] 'Ocymum densum'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The labia & stamine rich blue not very dark the tube & under side of the flower pale blue w^{t} a cast of purple.' [SP]; 'Ocymum densum' [?] [unknown]; [ink] 'Endeavours River.' [JB]. 540×360/420.
Bacstrom, S. Ms.: 94.

A6/294 **Plectranthus foetidus** Bentham, *Labiat. gen. spec.*: 35 (1832).

Specimen: 2 sheets, 1 – Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 496–498 'Ocymum foetidum'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'ultramarine' 'pale' 'pale violet' 'ultramarine' [SP]; *v* 'Ocymum foetidum' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/400. Bacstrom, S. Ms.: 94.

A6/295 **Hemigenia purpurea** R. Brown, *Prodr.*: 502 (1810).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 22–23 'Glecomoides fruticosa'; Britten, J. 1901 *Ill.*: 75 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower a pale blueish purple turning into white at the base on which are a few orange spotts. leaves grass green, stalk brown.' [SP]; 'Glechomoides fruticosa' [unknown]; '50' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/315.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 1778'. 540×350/345.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 98; Brown, R. Ms.: 21/509. 460×295/345; engraving proof *r* [pencil] 'Glechomoides fruticosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 241; col. engraving 1983 *BF*: pl. 256.

A6/296 **WESTRINGIA FRUTICOSA** (Willdenow) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*: 652 (1917).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 35–36 'Cunila fruticosa'; Solander, D. Slip Catalogue **1**: 791–796; Britten, J. 1901 *Ill.*: 75 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '13' [unknown]; 'Westringia rosmarinifolius Smith' [Sm. [?]]; *v* 'The flowers white spots red brown. the under side of the leaves & young stalks silvery.' [SP]; '71' [unknown]; 'Cunila fruticosa' [unknown]; [ink] 'Botanists Bay' [JB]. 370×265/280.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinxt. 1773.'; 'Cunila fruticosa' [unknown]; [pencil] 'Westringia rosmarinifolius Smith' [Sm. [?]]. 540×360/280.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/31. 455×295/275; engraving proof *r* [pencil] 'Cumila fruticosa' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 242; col. engraving 1983 *BF*: pl. 257.

A6/297 **AJUGA AUSTRALIS** R. Brown, *Prodr.*: 503 (1810).

SPECIMEN: 2 sheets, Bustard Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 119–120 'Ajuga caerulea'; Britten, J. 1901 *Ill.*: 75 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '42' [unknown]; *v* '112' [unknown]; 'Ajuga caerulea' [unknown]; [ink] 'Bustard Bay' [JB]. 470×290/390.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx:^{t} 1778'. 540×350/455.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 23/573. 460×295/450; 2 engraving proofs: 1 – *r* [ink] 'Ajuga caerulia' 'G. Sibelius'; [pencil] 'The' 'The upper labium shorter than the anther' '~~L~~anthera' 'style before' [unknown]; 2 – [pencil] 'Ajuga ca'rula' [unknown]; lithograph Britten, J. 1901 *Ill.*: pl. 243; col. engraving 1983 *BF*: pl. 258.

A6/298 TEUCRIUM ARGUTUM R. Brown, *Prodr.*: 504 (1810).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 233–234 'Ajuga moschata'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '43' [unknown]; *v* 'The labia of the flower a rich purple turning white toward the base the upper petala white tho stain'd w^t crimson. the leaves grass green the underside considerably paler w^t very prominent veins stalks & buds pale yellow green' [SP]; 'P' [unknown]; '170' [unknown]; 'Ajuga moscata' [unknown]; [ink] 'Palm Island' [JB]. 470×290/380.
Bacstrom, S. Ms.: 94.

CHENOPODIACEAE

A7/299a RHAGODIA CANDOLLEANA Moquin-Tandon, *Chenop. monogr. enum.*: 10 (1840).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 36–37 'Atriplex baccata'; Britten, J. 1905 *Ill.*: 77 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '193' [unknown]; *v* 'The berries pale green when young dark green when older & a dark shining red when ripe the calyx pale green & crimson on the inside' [SP]; 'Atriplex baccata' [unknown]; '84' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/275.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder. pinx^t 1781'. 545×345/310.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 138; [not in Brown]. 455×295/305; engraving proof *r* [pencil] 'Atriplex baccata' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 244; col. engraving 1983 *BF*: pl. 259.

A7/299b ATRIPLEX CINEREA Poiret, *Encycl. Suppl.* **1**: 471 (1811).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 83 'Atriplex halimifolia'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '78' [unknown]; *v* 'The receptacle pale dirty brown the anthera yellow' [SP]; 'Atriplex halimifolia' [unknown]; '27' [unknown]; [ink] 'Botany Bay.' [JB]. 475×290/365.
Bacstrom, S. Ms.: 138.

A7/300 SUAEDA ARBUSCULOIDES L.S. Smith, *Contr. Qd Herb.* **6**: 1 (1969).

SPECIMEN: 3 sheets, 1 – Bustard Bay, 2 – Bay of Inlets, 3 – no locality.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 128–129, 155 'Salsola erecta'; [no description in Britten].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '93' [unknown]; *v* 'Salsola erecta' [unknown]; '114' [unknown]; [ink] 'Bustard Bay' [JB]. 470×290/345.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}. 1774.'; *v* [pencil] 'Salsola erecta' [unknown]. 525×350/365.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/134. 455×295/365; engraving proof *r* [pencil] 'Salsola erecta' [unknown]; [not in Britten]; col. engraving 1983 *BF*: pl. 260.

A7/301 **Salsola kali** Linnaeus *Sp. pl.* **1**: 222 (1753).

Specimen: Bay of Inlets, Endeavour River, Island of Savu.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 204–205, **4**: 550–551 'Salsola spinosa'; Britten, J. 1905 *Ill.*: 77 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '66' [?] [unknown]; *v* 'Salsola spinosa' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/280.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}. 1774'; *v* [pencil] 'Salsola spinosa' [unknown]. 525×350/310.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/135. 455×295/305; engraving proof *r* [pencil] 'Salsola spinosa' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 245; col. engraving 1983 *BF*: pl. 261.

AMARANTHACEAE

A7/302 **Deeringia amaranthoides** (Lamarck) Merrill, *Interpr. Herb. amboin.*: 211 (1917).

Specimen: *, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 177–178 'Claytonioides sarmentosa'; Britten, J. 1905 *Ill.*: 77 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers a pale greenish white buds & germen a pale green. leaves grass green vein'd w^{t} lighter green the under side paler with prominent veins the petiola faintly ting'd w^{t} red' [SP]; 'Claytonoides sarmentosa' [unknown]; '160' [unknown]; [ink] 'Thirsty Sound.' [JB]. 545×350/455.

Finished drawing: watercolours *r* [ink] 'Jn:^{o} Cleveley Jun^{r}. Pinct. 1774.'; *v* [pencil] 'Claytonoides sarmentosa' [unknown]. 540×345/450.

Copper plate: [CW]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 13/304. 455×295/435; engraving proof *r* [pencil] 'Claytonoides sarmentosa' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 246; col. engraving 1983 *BF*: pl. 262.

A7/303 **Deeringia arborescens** (R. Brown) Druce, *Rep. botl Soc. Exch. Club Br. Isl. 1916*: 619 (1917).

Specimen: *, Endeavour River (syntype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 335–336 'Pharnacioides arborescens'; Britten, J. 1905 *Ill.*: 77 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Flowers white the leaves above grass green faintly vein'd below somewhat paler w^{t} dark veins and prominent light col^{d} nerves' [SP]; 'Pharnaceoides arborea' [unknown]; [ink] 'Endeavours River' [JB]. 540×345/325.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller. pinx.^{t} 1775.'; *v* [pencil] 'Pharnacioides arborea' [unknown]; 'E.R.' [unknown]. 435×345/390.

Copper plate: [DM]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 16/381. 455×295/415; engraving proof *r* [pencil] 'Pharnaceoides arborea' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 247; col. engraving 1983 *BF*: pl. 263.

POLYGONACEAE

A7/304 Persicaria attenuata (R. Brown) Sojâk, *Preslia* **46** (2): 152 (1974).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 535–537 'Polygonum albiflorum'; Britten, J. 1905 *Ill.*: 78 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '51' [unknown]; *v* 'the flowers white.' [SP]; 'Polygonum albiflorum' [unknown]; [ink] 'Endeavours River.' [JB]. 540×370/420.

Finished drawing: watercolours *r* [ink] 'Jn:° Cleveley Jun^{r} Pinxt. 1775.'; *v* [pencil] 'Polygenum Albiflorum' [unknown]. 540×345/420.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 10/239. 460×295/420; engraving proof *r* [pencil] 'Polygonum albiflorum' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 248; col. engraving 1983 *BF*: pl. 264.

A7/305 Muehlenbeckia rhyticarya F. Mueller, *Fragm.* **5**: 92 (1865).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 329, 361–362 'Polygonum volubile'; Solander, D. Slip Catalogue **x**: 107–108; Britten, J. 1905 *Ill.*: 78 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves grass green above w^{t} hollow veins & a pale nerve below glaucus w^{t} high veins stalks & flowers pale green, membranaceous bractea orange brown.' [SP]; 'Polygonum volubile' [unknown]; [ink] 'Endeavours River.' [JB]. 540×345/360.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1775.'; *v* [pencil] 'Polygonum volubile' [unknown]; 'E: River' [unknown]. 535×300/345.

Copper plate: [EW]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 11/275. 460×295/345; engraving proof *r* [pencil] 'Polygonum volubile' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 249; col. engraving 1983 *BF*: pl. 265.

PIPERACEAE

A7/306 Piper mestonii Bailey in Meston, *Rep. Exped. Bellenden-Ker*: 54 (1889).

Specimen: 2 sheets, 1 – Endeavour River, 2 – Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **2**:260 'Piper [[viridissimum]] Betle'; Solander, D. Slip Catalogue **II**: 111–112; Britten, J. 1905 *Ill.*:78 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '2' [unknown]; *v* 'The flowers dirty straw colour.' [SP]; 'R' [unknown]; '184' [unknown]; 'Piper Betle' [unknown]; '[184]' [unknown]. 540×350/395.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1773.'; 'Piper Betle' [unknown]. 540×350/395.

Copper plate: [JL]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/33. 455×295/390; engraving proof *r* [pencil] 'Piper Betle' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 250; col. engraving 1983 *BF*: pl. 266.

MYRISTICACEAE

A7/307 **Myristica insipida** R. Brown, *Prodr.*: 400 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**:307–308 'Cytinoides cimicifera'; Britten, J. 1905 *Ill.*:78 *pro descr.*

Outline drawing: pencil outlines with colour reference [SP]; *r* [pencil] '111' [unknown]; *v* 'Flowers Buff colour.' [SP]; 'Myristica [[Cytinoides]] cimicefera' [unknown]; [ink] 'Endeavours River' [JB]. 540×345/390.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx:^{t} 1780'. 540×350/390.

Copper plate: [DM]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 28/704 [?]. 455×295/390; engraving proof *r* [pencil] 'Myristica cimecifera' [unknown]; 'D. Mackenzie'; lithograph Britten, J. 1905 *Ill.*: pl. 251; col. engraving 1983 *BF*: pl. 267.

LAURACEAE

A7/308 **Endiandra glauca** R. Brown, *Prodr.*: 402 (1810).

Specimen: 3 sheets, Endeavour River (syntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **4**:477–478, 498–499 'Laurus glauca'; Britten, J. 1905 *Ill.*:79 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Flower pale green. the fruit when ripe shining black.' [SP]; 'L glauca' [unknown]; [ink] 'Endeavours River' [JB]. 540×345/405.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1777.'. 540×345/405.

Copper plate: [RB]; Bacstrom, S. Ms.: 68; Brown, R. Ms.: 20/477. 455×295/400; engraving proof *r* [pencil] 'Laurus glauca' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 252; col. engraving 1983 *BF*: pl. 268.

PROTEACEAE

A7/309 ISOPOGON ANETHIFOLIUS (Salisbury) J. Knight, *Cult. Prot.*: 94 (1809).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 77–78 'Leucadendron serraria'; Britten, J. 1905 *Ill.*: 79 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The buds before they open are testaceous white when open white. the stile & stamina yellow. the leaves grass green the bottom of the petiolae almost yellow the leaves grass green. the stalk red brown.' [SP]; 'Leucad Serraria' [unknown]; '32' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/280.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt'; *v* [pencil] 'Leucadendron serraria' [unknown]. 520×350/315.

COPPER PLATE: [WS]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/54. 455×295/300; engraving proof *r* [pencil] 'Leucadendron serraria' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 253; col. engraving 1983 *BF*: pl. 269.

A7/310 ISOPOGON ANEMONEFOLIUS (Salisbury) J. Knight, *Cult. Prot.*: 93 (1809).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 95–96 'Leucadendrum apiifolium'; Britten, J. 1905 *Ill.*: 79 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves grass green. the flowers the same colour as the other species but yellower the cones Coffee colour cover'd w^{t} a white [?] substance, the stalk dark redish brown.' [SP]; 'Leucad. apiifolium' [unknown]; '93' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/290.

FINISHED DRAWING: watercolours *v* [pencil] 'Leucadendron Apiifolium' [unknown] 435×350/315; see Beaglehole, J.C. 1962 **2**: pl. 20. ; Carr, D.J. [Ed.] 1983 pl. 158 p. 165.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/52. 455×295/320; engraving proof *r* [pencil] 'Leucadendron apiifolium' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 254; col. engraving *BF*: pl. 270 [in preparation].

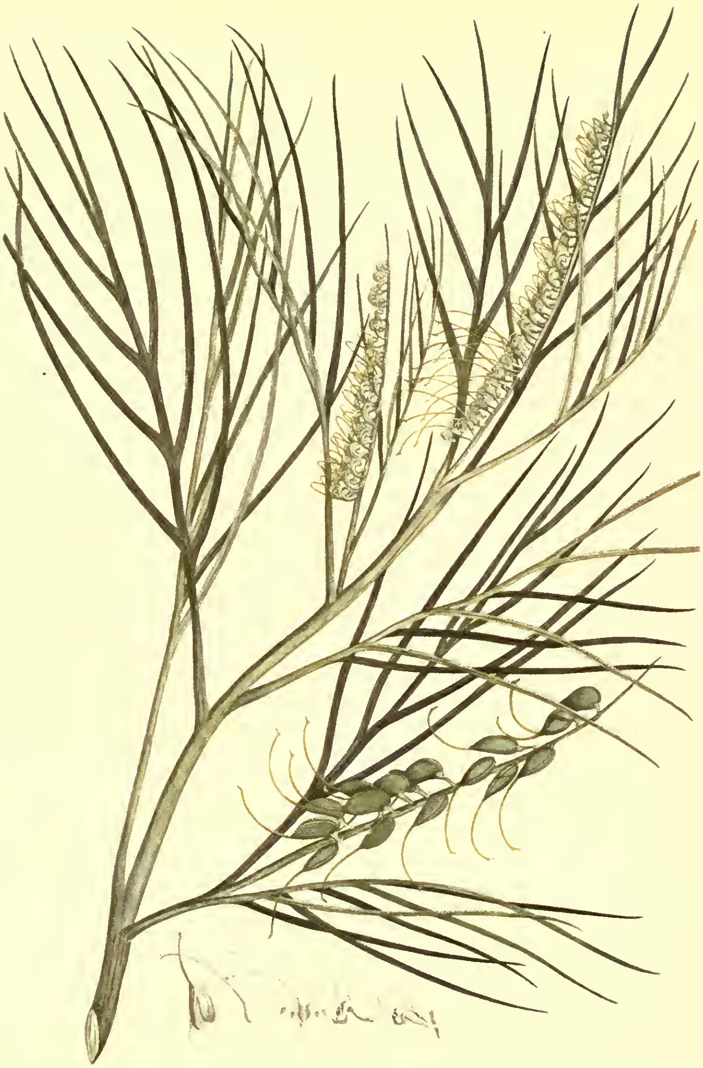
A7/311 SYMPHIONEMA PALUDOSUM R. Brown, *Trans. Linn. Soc. Lond.* **10**: 158 (1810).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 44 'Crucianelloides crithmifolia'; Britten, J. 1905 *Ill.*: 79 *pro descr.*

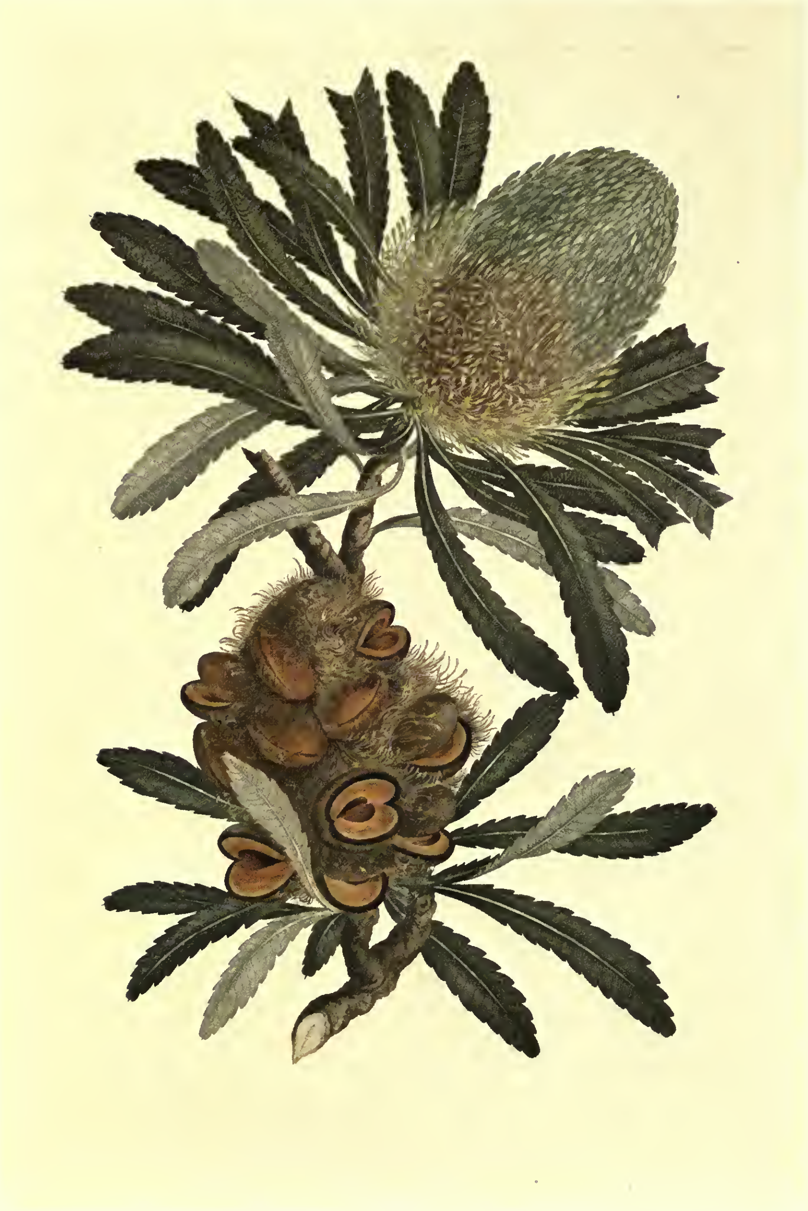
OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '44' [unknown]; *v* 'The flower white, anthera yellow, leaves & stalk grass green a little ting'd w^{t} purple.' [SP]; 'Crucianelloides crithmifolia' [unknown]; '42' [unknown]; [ink] 'Botany bay' [JB]. 365×265/265.

FINISHED DRAWING: watercolours *r* [ink] 'John Fred^{k} Miller pinx:^{t} 1774.'; *v* [pencil] 'Crucianelloides crithmifolia' [unknown]. 525×345/305.



A7/317 *Grevillea pteridifolia*

[Plate 277 from *Banks' Florilegium*]
gathered Endeavour River, Australia, 17 June–4 August 1770
line engraving by G. Sibelius after Sydney Parkinson (1770) & J. F. Miller (1773)
460 × 300 mm



A7/326 *Banksia serrata*

[Plate 285 from *Banks' Florilegium*]
gathered Botany Bay, Australia, 28 April–6 May 1770
line engraving by G. Smith after Sydney Parkinson (1770) & J. F. Miller (1773)
460 × 300 mm

Copper plate: [GS]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 7/151. 455×295/300; engraving proof *r* [pencil] 'Crucianelloides crythmifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 255; col. engraving 1983 *BF*: pl. 271.

A7/312 **Persoonia falcata** R. Brown, *Trans. Linn. Soc. Lond.* **10**: 162 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 465–466 'Kramerioides loranthoides'; Britten, J. 1905 *Ill.*: 80 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Kramerioides [[angufor]] Loranthoides'; [ink] 'Endeavours River' [JB]. 540×365/410.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773.'; *v* [pencil] 'Kramerioides loranthoides' [unknown]. 540×370/405.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 10/241. 460×295/400; engraving proof *r* [pencil] 'Kramerioides Loranthoides' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 256; col. engraving 1983 *BF*: pl. 272.

A7/313 **Persoonia levis** (Cavanilles) Domin, *Biblthca bot.* **89**: 28 (1921).

Specimen: 3 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 30 'Loranthoides latifolius'; Britten, J. 1905 *Ill.*: 80 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '6' [unknown]; *v* 'The flowers the same colour as the smaller species.' [SP]; 'Loranthoides latifolia' [unknown]; '22' [unknown]; 'Botany Bay' [unknown]; [ink] 'Endeavours River' [JB]. 470×290/375.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}. 1773.'; *v* [pencil] 'Loranthoidus latifolia' [unknown]. 435×350/385.

Copper plate: [CW]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 9/222. 460×295/385; engraving proof *r* [pencil] 'Loranthoides latifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 257; col. engraving 1983 *BF*: pl. 273.

A7/314 **Persoonia lanceolata** Andrews, *Bot. repos.* **2**: t. 74 (1799).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 30, 33 'Loranthoides angustifolius'; Britten, J. 1905 *Ill.*: 80 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '37' [?] [unknown]; *v* 'The buds yellow, the flower when blown much paler the Anthera dark brown on the inside & white on the outside. the leaves the same colour as the larger species.' [SP]; 'Loranthoides angustifol' [unknown]; '3.' [unknown]; 'Botany Bay' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/305.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}'; *v* [pencil] 'Loranthoidus angustifolia' [unknown]. 435×350/330.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 6/147. 460×295/330; engraving proof *r* [pencil] 'Loranthoides angustifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 258; col. engraving 1983 *BF*: pl. 274.

A7/315 **XYLOMELUM PYRIFORME** (Gaertner) J. Knight, *Cult. Prot.*: 105 (1809).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 83–84 'Leucadendroides pyrifera'; Britten, J. 1905 *Ill.*: 80 *pro descr.*; 1973 *CF*: pl. 23 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '10' [unknown]; 'Xylomelum pyriforme Smith' [Sm. [?]]; *v* 'Leucadend. pyrifera' [unknown]; '89' [unknown]; [ink] 'Botany Bay' [JB]. 545×365/470.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}. 1773.'; [pencil] 'Xylomelum pyriforme Smith' [Sm.]; *v* 'Leucadendroides pyrifera' [unknown]. 535×370/470.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 4/78. 455×295/445; engraving proof *r* [pencil] 'Leucadendroides pyrifera' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 259; engraving 1973 *CF*: pl. 23; col. engraving 1983 *BF*: pl. 275.

A7/316 **LAMBERTIA FORMOSA** Smith, *Trans. Linn. Soc. Lond.* **4**: 223, t. 20 (1798).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 100 'Brabejum pungens'; Britten, J. 1905 *Ill.*: 81 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'orange' 'crimson' 'blk' 'pink fading into straw colour' [unknown]; 'Lambertia formosa Smith' [Sm. [?]]; *v* 'The bractea pale crimson turning into a green straw colour. the smaller bractea only ting'd w^{t} crimson' [SP]; 'Brabejum pungens' [unknown]; '16' [unknown]; [ink] 'Botany Bay.' [JB]. 365×265/245.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773.'; [pencil] 'Lambertia formosa Smith' [Sm. [?]]; *v* [pencil] 'Brabejum pungens.' [unknown]. 535×350/250.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 6/146. 460×295/260; engraving proof *r* [pencil] 'Brabejum pungens' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 260; col. engraving 1983 *BF*: pl. 276.

A7/317 **GREVILLEA PTERIDIFOLIA** J. Knight, *Cult. Prot.*: 121 (1809).

SPECIMEN: 2 sheets, Endeavour River, Point Lookout (lectotype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 422–423 'Leucadendroides crocea'; Britten, J. 1905 *Ill.*: 81 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Leucad$^{\underline{des}}$ crocea' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/460.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1773.'; *v* [pencil] 'Leuc. crocea' [unknown]. 535×355/455; see Carr, D. J. [Ed.] 1983 pl. 163 p. 170.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 3/73. 460×295/445; engraving proof *r* [pencil] 'Leucadendroides crocea' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 261; col. engraving 1983 *BF*: pl. 277.

A7/318 **Grevillea mucronulata** R. Brown, *Trans. Linn. Soc. Lond.* **10**: 173 (1810).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 43–44 'Leucadendroides mitis'; Britten, J. 1905 *Ill.*: 81 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'green' 'crimson' 'anthera yellow' 'greenish white' [unknown]; *v* 'Leucadend^{s}-mitis' [SP]; '17' [unknown]; [ink] 'Botany Bay' [JB]. 363×263/200.

Finished drawing: watercolours *v* [pencil] 'Leucadendroides mitis' [unknown]. 540×350/310.

Copper plate: [WS]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 3/75. 460×295/310; engraving proof *r* [pencil] 'Leucadendroides Mitis' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 262; col. engraving 1983 *BF*: pl. 278.

A7/319 **Grevillea paralella** J. Knight, *Cult. Prot.*: 121 (1809).

Specimen: Endeavour River, Cape Fear, Point Lookout, Possession Island (lectotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 467–468 'Leucadendroides juncea'; Britten, J. 1905 *Ill.*: 81 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '10' [unknown]; *v* 'Leucd$^{\underline{des}}$ juncea' [unknown]; [ink] 'Endeavours River' [JB]. 540×370/440.

Finished drawing: watercolours *r* [ink] 'James Miller Pinx^{t} 1773.'; *v* [pencil] 'Leucad. juncea' [unknown]. 540×350/440.

Copper plate: [WT]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 3/71. 460×295/420; engraving proof *r* [pencil] 'Leucadendroides juncea' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 263; col. engraving 1983 *BF*: pl. 279.

A7/320 **Grevillea glauca** J. Knight, *Cult. Prot.*: 121 (1809).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 466–467, **4**: 579–580 'Leucadendroides glauca'; Britten, J. 1905 *Ill.*: 82 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Petala white w^{t} a cast of green, germen pale green petiole gray green the ripe fruit dark chocolate colour much chopp'd.' [SP]; 'Leucad$^{\underline{des}}$ glauca' [unknown]; 'AR.' [unknown]; [ink] 'Endeavours River' [JB]. 540×370/460.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773.'; *v* [pencil] 'Leucadendroides glauca' [unknown]. 540×350/465; see Beaglehole, J.C. 1962 **2**: pl. 28; Carr, D.J. [Ed.] 1983 pl. 161 p. 168.

Copper plate: [DM]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 3/72. 460×295/420; engraving proof *r* [pencil] 'Leucadendroides salicifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 264; col. engraving 1983 *BF*: pl. 280.

A7/321 **Hakea teretifolia** (Salisbury) Britten, *J. Bot., Lond.* **54**: 59 (1916).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 82 'Leucadendroides corniculata'; Britten, J. 1905 *Ill.*: 82 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '5' [unknown]; [ink] 'Opoorage' [JB]; *v* [pencil] 'The leaves grass green capsulæ dark red brown stalks the same somewhat paler.' [SP]; 'Leucadend^{s} corniculata' [unknown]; '94' [unknown]; [ink] 'Botany Bay' [JB]. 470×290/350.

Finished drawing: watercolours *v* [pencil] 'Leucadend. corniculata' [unknown]. 540×350/415.

Copper plate: [DM]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 4/77. 455×295/410; engraving proof *r* [pencil] 'Leucadendroides corniculata' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 265; col. engraving 1983 *BF*: pl. 281.

A7/322 **Hakea gibbosa** (Smith) Cavanilles, *An. Hist. nat. Madrid.* **1** (3): 214 (1800).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 41–43 'Leucadendroides spinosissima'; Britten, J. 1905 *Ill.*: 82 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '39' [?] [unknown]; *v* 'The flowers an stamina Straw colour the young buds. ting'd w^{t} brown the anthera pale brown. the capsula dark grey brown much chopp'd.' [SP]; 'Leucad$^{\underline{ds}}$ Spinosissma' [unknown]; '83' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/320.

Finished drawing: watercolours *v* [pencil] 'Leucadendroides spinosissima' [unknown]. 535×345/350.

Copper plate: [DM]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 3/74. 460×295/345; engraving proof *r* [pencil] 'Leucadendroides spinossissima' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 266; col. engraving 1983 *BF*: pl. 282.

A7/323 **Hakea dactyloides** (Gaertner) Cavanilles, *An. Hist. nat. Madrid.* **1** (3): 215 (1800).

Specimen: 2 sheets, Botany Bay (isotypes).

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 81 'Leucadendroides salicifolia'; Britten, J. 1905 *Ill.*: 82 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '4' [unknown]; *v* 'Leucad$^{\underline{des}}$ salicifolia' [unknown]; '92' [unknown]; [ink] 'Botany Bay' [JB]. 470×290/390.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t} 1773.'; *v* [pencil] 'Leucadendroides salicifolia' [unknown]. 540×350/400.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 4/76. 460×295/390; engraving proof *r* [pencil] 'Leucadendroides glauca' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 267; col. engraving 1983 *BF*: pl. 283.

A7/324 **BANKSIA ERICIFOLIA** Linnaeus f., *Suppl. pl.*: 127 (1782).

Specimen: Botany Bay (isotype).

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 102–104 'Leucadendrum ericaefolium'; Britten, J. 1905 *Ill.*: 83 *pro descr.*; 1973 *CF*: pl. 25a *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala & buds gold colour the Stiles scarlet turning yellow towards the point' [SP]; 'Leucad. ericaefolium' [unknown]; '55' [unknown]; [ink] 'Botany Bay' [JB]. 540×350/455.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773.'. 535×350/450; see Carr, D.J. [Ed.] pl. 162 p. 169.

Copper plate: * [TS+DM]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/53. 455×295/440; engraving proof *r* [pencil] 'Banksia ericaefolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 268; engraving 1973 *CF*: pl. 25a.

A7/325 **BANKSIA INTEGRIFOLIA** Linnaeus f., *Suppl. pl.*: 127 (1782).

Specimen: 2 sheets, Botany Bay (isotypes).

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 94, 104–106 'Leucadendrum integrifolium'; Britten, J. 1905 *Ill.*: 83 *pro descr.*; 1973 *CF*: pl. 25 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Leucad. integrifolium' [unknown]; 'Botany Bay' [unknown]; '88' [unknown]; [ink] 'Endeavours River' [JB]. 540×350/445.

Finished drawing: watercolours. 535×360/450.

Copper plate: [CW]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/51. 460×295/430; engraving proof *r* [pencil] 'Banksia integrifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 269; engraving 1973 *CF*: pl. 25; col. engraving 1983 *BF*: pl. 284.

A7/326 **BANKSIA SERRATA** Linnaeus f., *Suppl. pl.*: 126 (1782).

Specimen: Botany Bay (lectotype).

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 91, 95, 98 'Leucadendrum serratifolium'; Britten, J. 1905 *Ill.*: 83 *pro descr.*; 1973 *CF*: frontispiece *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Mem. the space below the flowers to be fill'd up w^{t} dark colour.' [SP]; 'Leucad serratum' [unknown]; '87' [unknown]; [ink] 'Botany Bay' [JB]. 540×350/465.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx:^{t} 1773.'; *v* [pencil] 'Leucadendron serratum' [unknown]. 540×345/465; see Beaglehole, J.C. 1962 **2**: pl. III col. pl.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 2/50. 460×295/420; engraving proof *r* [pencil] 'Banksia serrata' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 270; engraving 1973 *CF*: frontispiece; col. engraving 1983 *BF*: pl. 285.

A7/327 BANKSIA DENTATA Linnaeus f., *Suppl. pl.*: 127 (1782).

SPECIMEN: 2 sheets, Endeavour River (isotypes).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 580 'Leucadendrum dentatum'; Britten, J. 1905 *Ill.*: 84 *pro descr.*; 1973 *CF*: pl. 26 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Leucadendr dentatum' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/445.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinx^{t} 1773'; *v* [pencil] 'Leucadendron dentatum' [unknown]. 540×345/435.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 2/49. 460×295/410; engraving proof *r* [pencil] 'Banksia dentata' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 271; engraving 1973 *CF*: pl. 26; col. engraving 1983 *BF*: pl. 286.

THYMELAEACEAE

A7/328 PIMELEA CORNUCOPIAE Vahl, *Enum. pl.* **1**: 305 (1804).

SPECIMEN: 3 sheets, 1 – Bustard Bay, Endeavour River, Cape Grafton.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 110, **4**: 480–481 'Pimalea [[herbacea]] cornucopiae'; Solander, D. Slip Catalogue **1**: 361–365.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The plant to be drawn branched' [unknown]; 'The flowers white anthera yellow leaves herbaceous green' [SP]; '101' [unknown]; 'Pimelea Cornucopiae' [unknown]; [ink] 'Bustard Bay' [JB]. 365×265/190.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt: 1773'; 'Pimelea Cornu copiae.' [unknown]. 540×350/285.
[Not in Bacstrom].

A7/329 PIMELEA CORNUCOPIAE Vahl, *Enum. pl.* **1**: 305 (1804).

SPECIMEN: see 328.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 110, **4**: 480–481 'Pimalea [[herbacea]] cornucopiae; Solander, D. Slip Catalogue **1**: 361–365; Britten, J. 1905 *Ill.*: 84 *pro descr.*

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1773.'; 'Pimelea Cornu copiae.' [unknown]. 535×350/330.

COPPER PLATE: [TS]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/13. 455×295/325; engraving proof *r* [pencil] 'Pimelea cornucopiae' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 272; col. engraving 1983 *BF*: pl. 287.

A7/330 PIMELEA LINIFOLIA Smith, *Specim. Bot. New Holland*: 31, t. 11 (1794).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander. D. Pl. Nov. Holl. **1**: 50 'Pimalea involucrata'; Solander, D. Slip Catalogue **1**: 383–385, 387–388; Britten, J. 1905 *Ill.*: 84 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The foliola involucri are made too long & not broad enough' [unknown]; 'The flowers white very hairy below the leaves a glaucus green vein'd above with white green young Stalks yellow green old ones sordid brown. furry, & white.' [SP]; '66' [unknown]; 'Pimelea involucrata' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/235.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinx^{t}. 1773.'; 'Pimelea involucrata' [unknown]. 540×355/230.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/12. 455×295/230; engraving proof *r* [pencil] 'Pimelea involucrata' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 273; col. engraving 1983 *BF*: pl. 288.

LORANTHACEAE

A7/331 **DENDROPHTHOË VITELLINA** (F. Mueller) van Tieghem, *Bull. Soc. bot. Fr.* **42**: 87 (1895).

SPECIMEN: Bay of Inlets, Thirsty Sound.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 168–169, 259 'Loranthus pentandrus'; Britten, J. 1905 *Ill.*: 84 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The tube of the corrolla bright yellow lacinia scarlet stamina & the end of the stile red anthera straw colour buds yellow w^{t} a cast of Green the Point scarlet the leaves pale [?]' [SP]; '3' [unknown]; 'Loranthus pentandrus' [unknown]; '138' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×290/370.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}. 1775.'; *v* [pencil] 'Loranthus pentandrus' [unknown]; 'Thirsty Sound' [unknown]. 540×350/430.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 13/319. 460×295/430; engraving proof *r* [pencil] 'Loranthus pentandrus' [unknown]; 'Nova Cambria' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 274; col. engraving 1983 *BF*: pl. 289.

A7/332 **AMYEMA BINIFLORUM** Barlow, *Aust. J. Bot.* **14**: 459 (1966).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 344–345 'Loranthus squarrosus'; Britten, J. 1905 *Ill.*: 85 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Loranthus squarrosus' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/430.

FINISHED DRAWING: watercolours *r* [ink] 'James. Miller Pinxt. 1775'; *v* [pencil] 'Loranthus squarrosus' [unknown]; 'Endeavours River' [unknown]. 535×350/430.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 13/321. 455×295/420; engraving proof *r* [pencil] 'Loranthus Squarrosus' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 275; col. engraving 1983 *BF*: pl. 290.

A7/333 **Decaisnina brittenii** (Blakely) Barlow, *Aust. J. Bot.* **14**:433 (1966).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**:363–364 'Loranthus vittatus'; Britten, J. 1905 *Ill.*:85 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The stalks brown. rather pale' [SP]; 'Loranthus vittatus' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/320.

Finished drawing: watercolours *r* [ink] 'Jn:^{o} Cleveley Jun^r. Pinx^t. 1774.'; *v* [pencil] 'Loranthus Vittatus' [unknown]. 525×350/355; see Carr, D.J. [Ed.] pl. 164 p. 171.

Copper plate: [DM]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 13/320. 460×295/340; engraving proof *r* [pencil] 'Loranthus vittatus' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 276; col. engraving 1983 *BF*: pl. 291.

SANTALACEAE

A7/334 **Santalum lanceolatum** R. Brown, *Prodr.*:356 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **2**:277–278 '[[Struthioloides]] Santalum glaucum'; Britten, J. 1905 *Ill.*:85 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala &^{c} white w^t a cast of green stile & stamina pale yellow calyx pea green' [SP]; 'Struthioloides glauca' [unknown]; '388' [unknown]; [ink] 'Endeavours River' [JB]. 470×290/395.

Finished drawing: watercolours *r* [ink] 'James Miller Del: 1774'; *v* [pencil] 'Struthioloides glauca' [unknown]; 'Endeavours river' [unknown]. 540×350/415.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 10/234. 465×300/410; engraving proof *r* [pencil] 'Struthioloides glauca' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 277; col. engraving 1983 *BF*: pl. 292.

A7/335 **Anthobolus triqueter** R. Brown, *Prodr.*:357 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**:499–500 'Taxoides angustifolia'; Britten, J. 1905 *Ill.*:85 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '192' [?] [unknown]; *v* 'The petala yellow germen green' [SP]; 'Taxoides angustifolia' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/305.

Finished drawing: watercolours *r* [ink] 'Fred^k. Polydore Nodder. Pinx^t. 1781'; [pencil] 'broader' [unknown]. 545×350/305.

Copper plate: [GS]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 27/661. 460×295/310; engraving proof *r* [pencil] 'Taxoides angustifolia' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 278; col. engraving 1983 *BF*: pl. 293.

A7/336 **Exocarpos latifolius** R. Brown, *Prodr.*: 356 (1810).

Specimen: 2 sheets, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 182–183, **3**: 461 'Taxoides latifolia'; Britten, J. 1905 *Ill.*: 86 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '77' [unknown]; *v* 'The leaves grass green w^{t} faint veins furrowed the fruit a yellow green the calyx & stalks grey green the lower part of the fruit bright orange the upper part green straw colour.' [SP]; '3' [unknown]; 'Taxoides latifolia' [unknown]; '131' [unknown]; [ink] 'Thirsty Sound' [JB]. 470×290/345.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'. 540×345/350.

Copper plate: [GS]; Bacstrom, S. Ms.: 130; Brown, R. Ms.: 27/662. 460×300/350; engraving proof *r* [pencil] 'Taxoides latifolia' [unknown]; 'G:^{d} Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 279; col. engraving 1983 *BF*: pl. 294.

A7/337 **Exocarpos cupressiformis** Labillardière, *Voy. rech. Pérouse* **1**: 156, t. 14 (1800).

Specimen: 3 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 54–55 'Taxoides pendula'; Britten, J. 1905 *Ill.*: 86 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '190' [?] [unknown]; *v* 'The plant a dark green flowers yellow green the fruit glaucus green.' [SP]; 'N^{o} 1.' [unknown]; 'Taxoides pendula' [unknown]; [ink] 'Botany Bay' [JB]. 365×265/290.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'. 540×350/225.

Copper plate: [DM]; Bacstrom, S. Ms.: 130; Brown, R. Ms.: 27/660. 465×300/230; engraving proof *r* [pencil] 'Taxoides pendula' [unknown]; 'D. MKenzie'; lithograph Britten, J. 1905 *Ill.*: pl. 280; col. engraving 1983 *BF*: pl. 295.

EUPHORBIACEAE

A7/338 **Chamaesyce atoto** (G. Forster) Croizat in Degener, *Fl. Hawaiiensis*: fam. 190 (1937).

Specimen: Bustard Bay, Bay of Inlets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 548–550 'Euphorbia cordifolia'; Britten, J. 1905 *Ill.*: 86 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '103' [?] [unknown]; '12' 'red neck [?]' 'Margin yellow' [unknown]; *v* 'Euphorbia cordifolia' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/275.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777'; *v* [pencil] 'Endeavour River' [unknown]. 540×350/295.

Copper plate: [DM]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 19/456. 460×295/295; engraving proof *r* [pencil] 'Euphorbia cordifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 281; col. engraving 1983 *BF*: pl. 296.

A7/339 CHAMAESYCE MITCHELLIANA (Boissier) Hassall, *Aust. J. Bot.* **24**: 640 (1976).

Specimen: 2 sheets, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 149, **4**: 550 'Euphorbia microphylla'; Britten, J. 1905 *Ill.*: 86 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '102' [?] [unknown]; *v* 'Euphorbia microphylla' [unknown]; [ink] 'Endeavours River' [JB]. 365×270/190.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1777.'. 545×350/225.

Copper plate: [DM]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 18/427. 460×295/220; engraving proof *r* [pencil] 'Euphorbia microphylla' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 282; col. engraving 1983 *BF*: pl. 297.

A7/340 CHAMAESYCE MACGILLIVRAYI (Boissier) Hassall, *Aust. J. Bot.* **24**: 640 (1976).

Specimen: 4 sheets, New South Wales.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 208–209, 243 'Euphorbia serrata'; Britten, J. 1905 *Ill.*: 87 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'green' [SP]; '34' [unknown]; *v* 'The flowers white, the middle greenish brown. The leaves above yellow green w^{t} hollow veins below a white green w^{t} prominent veins stalks pale yellow green. The lower leaves stain'd red' [SP]; 'P' [unknown]; '167' [unknown]; 'Euphorbia serrata' [unknown]; [ink] 'Thirsty Sound.' [JB]. 470×290/375.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t}, 1777'; *v* [pencil] 'Thirsty Sound' [unknown]. 545×345/420.

Copper plate: [GS]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 20/481. 460×295/410; engraving proof *r* [pencil] 'Euphorbia serrata' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 283; col. engraving 1983 *BF*: pl. 298.

A7/341 PORANTHERA MICROPHYLLA Brongniart in Duperrey, *Voy. monde*: t. 50 B (1834).

Specimen: 2 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 7–8, **4**: 504 'Crotonoides pusilla'; Britten, J. 1905 *Ill.*: 87 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Upper Flowers males' [unknown]; '5 Stamina' [unknown]; 'S' [unknown]; *v* 'The flowers white, Stalks, leaves and capsula grass green.' [SP]; '38' [unknown]; Crotonoides pusilla' [unknown]; [ink] 'Botany Bay' [JB]. 365×270/170.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder. Pinx^t. 1780'; [pencil] 'This drawing is made up from two specimens, which are probably different species' [unknown]. 545×350/195.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 130; Brown, R. Ms.: 27/671. 465×300/165; engraving proof; lithograph Britten, J. 1905 *Ill.*: pl. 284; col. engraving 1983 *BF*: pl. 299.

A7/342 **RICINOCARPOS PINIFOLIUS** Desfontaines, *Mém. Mus. Hist. nat. Paris* **3**: 459, t. 22 (1817).

SPECIMEN: 2 sheets, Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 48 'Croton corollatum'.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'oblique' [?] [unknown]; *v* 'The flower white stamina yellow buds tipt w^t red' [SP]; '29' [unknown]; 'Croton corollatum' [unknown]; [ink] 'Botany Bay' [JB]. 360×255/300.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder pinx^t. 1780'. 540×360/280.
Bacstrom, S. Ms.: 128.

A7/343 **BEYERIA TRISTIGMA** F. Mueller, *Fragm.* **6**: 181 (1868).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 439–440 'Crotonoides polyandra'; Britten, J. 1905 *Ill.*: 87 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'midrib yellow' [SP]; *v* 'The flower yellow w^t a cast of Olive fruit & leaves above grass green below glaucus almost white the nerve yellow green. stalk reddish brown' [SP]; 'Crotonoides polyandra' [unknown]; [ink] 'Endeavours River.' [JB]. 365×270/295.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder Pinx^t. 1780'; [pencil] 'too small' [unknown]. 545×345/295.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 130; Brown, R. Ms.: 25/623. 460×300/295; engraving proof *r* [pencil] 'Crotonoides polyandra' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 285; col. engraving 1983 *BF*: pl. 300.

A7/344 **PETALOSTIGMA BANKSII** Britten & S. Moore, *J. Bot., Lond.* **41**: 225, t. 453 (1903).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **4**: 515–516 'Clutioides baccata'; Britten, J. 1905 *Ill.*: 87 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Clutioides baccata' [unknown]; [ink] 'Endeavours River' [JB]. 540×350/365.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder pinx^t. 1781'. 540×350/370; see Carr, D.J. [Ed.] 1983 pl. 165 p. 172.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 27/673. 460×295/360; engraving proof *r* [ink] 'Clutioides baccata' 'G: Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 286; col. engraving 1983 *BF*: pl. 301.

A7/345 **Phyllanthus hebecarpus** Bentham, *Fl. austral.* **6**: 108 (1873).

Specimen: 2 sheets, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 175–177 'Crotonoides canescens'; Britten, J. 1905 *Ill.*: 88 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers pale green veind w^{t} red the fruit a greenish red. the leaves a glaucus green peduncli & bractea stain'd red. the stalks brown' [SP]; '3' [unknown]; '131' [unknown]; 'Crotonoides canescens' [unknown]; [ink] 'Thirsty Sound' [JB]. 365×265/295.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1780'. 540×350/295.

Copper plate: [GS]; Bacstrom, S. Ms.: 130; [not in Brown]. 460×300/290; engraving proof *r* [pencil] 'Crotonoides canescens' [unknown]; 'G^{d} Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 287; col. engraving 1983 *BF*: pl. 302.

A7/346 **Phyllanthus dallachyanus** Bentham, *Fl. austral.* **6**: 104 (1873).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 449–450 'Phyllanthus ovalifolia'; Britten, J. 1905 *Ill.*: 88 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '88' [unknown]; *v* 'The flower pale green the 3 inner petala edg'd w^{t} white. leaves grass green above faintly vein'd the under side glaucus w^{t} dark green veins the Stalks copper colour.' [SP]; 'Phyllanthus ovalifolia' [unknown]; [ink] 'Endeavours River.' [JB]. 365×270/260.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'; [pencil] 'The points too large' [unknown]. 545×345/275.

Copper plate: [GS]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 24/595. 460×300/275; engraving proof *r* [pencil] 'Phyllanthus ovalifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 288; col. engraving 1983 *BF*: pl. 303.

A7/347 **Neoroepera banksii** Bentham, *Fl. austral.* **6**: 117 (1873).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 294–296 'Clutioides buxifolia'; Britten, J. 1905 *Ill.*: 88 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Clutioides buxifolia' [unknown]; [ink] 'Endeavours River' [JB]. 365×270/280.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1781'. 545×300/315.

Copper plate: [DM]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 27/672. 460×300/310; engraving proof *r* [pencil] 'D. Mackenzie'; 'Clutioides buxifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 289; col. engraving 1983 *BF*: pl. 304.

A7/348 **Claoxylon tenerifolium** (Baillon) F. Mueller, *Fragm.* **6**: 183 (1868).

Specimen: 2 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 316–317, 319 'Trevia alternifolia'; Britten, J. 1905 *Ill.*: 88 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The upper side of the leaves dark shining green w^{t} paler veins the nerves green white the under side herbaceous green w^{t} dark green veins nerves prominent & pale. the pedum. & buds gray green antheral yellow stalk pale green ash colour' [SP]; 'Trevia alternifolia' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/435.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1781'. 545×350/430.

Copper plate: [GS]; Bacstrom, S. Ms.: 136; [not in Brown]. 460×300/435; engraving proof *r* [pencil] 'Trevia alternifolia' [unknown]; 'G^{d}: Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 290; col. engraving 1983 *BF*: pl. 305.

A7/349 **Tragia novae-hollandiae** J. Mueller, *Linnaea* **34**: 180 (1865).

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 329 'Tragioides pruriens'; Britten, J. 1905 *Ill.*: 89 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'smaller' [unknown]; *v* 'The leaves grass green above w^{t} pale veins & thinly set w^{t} small hair below Glaucus & very pale w^{t} prominent veins. calyx & stalk grass green stile brownish green' [SP]; 'Tragioides pruriens' [unknown]; [ink] 'Endeavours River.' [JB]. 545×350/400.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, pinx^{t}, 1781'. 540×345/395.

Copper plate: [DM]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 27/668. 465×300/390; engraving proof *r* [pencil] 'Tragioides pruriens' [unknown]; 'D. Mackenzie'; lithograph Britten, J. 1905 *Ill.*: pl. 291; col. engraving 1983 *BF*: pl. 306.

A7/350 **Mallotus claoxyloides** (F. Mueller) J. Mueller var. **ficifolius** (Baillon) Bentham, *Fl. austral.* **6**: 141 (1873).

Specimen: 3 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 306–307, 316 'Trevia oppositifolia'; Britten, J. 1905 *Ill.*: 89 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Trewia oppositifolia' [unknown]; [ink] 'Endeavours River' [JB]. 540×350/420.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, Pinx^{t} 1781'. 545×345/415.

Copper plate: [DM]; Bacstrom, S. Ms.: 136; [not in Brown]. 460×295/415; engraving proof *r* [pencil] 'Trevia oppositifolia' [unknown]; 'D. Mackenzie'; lithograph Britten, J. 1905 *Ill.*: pl. 292; col. engraving 1983 *BF*: pl. 307.

A7/351 MALLOTUS PHILIPPENSIS (Lamarck) J. Mueller, *Linnaea* **34**: 196 (1865).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 336 'Trevioides biglandulosa'; Britten, J. 1905 *Ill.*: 89 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The underside of the leaves more on they grey' [SP]; 'Trevioides 2glandulosa' [unknown]; '2 gland' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/455.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 540×350/435.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 27/ [?]; 460×300/435; engraving proof *r* [pencil] 'Trevioides biglandulosa' [unknown]; 'G^{d} Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 293; col. engraving 1983 *BF*: pl. 308.

A7/352 MALLOTUS POLYADENOS F. Mueller, *Fragm.* **6**: 184 (1868).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 462, **4**: 489 'Trevia glabrata'; Britten, J. 1905 *Ill.*: 89 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'Calyx in 3' [SP]; *v* 'The fruit green ting'd w^{t} dark red which is cover'd w^{t} small dots of green the stalks the same colour' [SP]; 'Trevia glabrata' [unknown]; [ink] 'Endeavours River' [JB]. 540×370/440.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 540×345/425.

COPPER PLATE: [GS, '1781']; Bacstrom, S. Ms.: 136; [not in Brown]; lithograph Britten, J. 1905 *Ill.*: pl. 294; col. engraving 1983 *BF*: pl. 309.

A7/353 MACARANGA INVOLUCRATA (Roxburgh ex Wallich) Baillon ex J. Mueller in de Candolle var. MALLOTOIDES (F. Mueller) Perry, *J. Arnold Arbor.* **34**: 223 (1953).

SPECIMEN: 2 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 339, 370–371 'Trevioides quadriglandulosa'; Britten, J. 1905 *Ill.*: 90 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'L [?] green' [unknown]; '2 or 3 flowers' [unknown]; *v* 'Flowers pale green bractea grass green.' [SP]; 'Trevioides 4gland' [unknown]; [ink] 'Endeavours River.' [JB]. 540×350/410.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1781'. 540×350/440.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 27/[?]. 460×300/440; engraving proof *r* [ink] 'Trevioides 4 glandulosa' 'G: Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 295; col. engraving 1983 *BF*: pl. 310.

A7/354 **Macaranga tanarius** (Linnaeus) J. Mueller in A. de Candolle, *Prodr.* **15** (2): 997 (1866).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 347–348, 377–378 'Ricinus Tanarius'.

Outline drawing: pencil outlines [SP]; *v* [pencil] 'The upper side of the leaves deep grass green w^t pale yellow green veins the under side very pale & glaucus green w^t prominent & pale nerves & yellow green veins bractea pale yellow green stalks cover'd w^t a glaucus meal the glands at the tips of the leaves pale yellow green' [SP]. 'Ricinus Tanarius' [unknown]; [ink] 'Endeavours River' [JB]. 540×370/430.
Bacstrom, S. Ms.: 128.

A7/355 **Omalanthus novo-guineensis** (Warburg) Schumann in Schumann & Lauterbach, *Fl. Schutzgeb. Südsee*: 407 (1901).

Specimen: 2 sheets, 1 – Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 332–333, 372 'Croton triglandulosum'; Britten, J. 1905 *Ill.*: 90 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Croton 3glandul' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/325.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder pinx^t 1780'. 545×345/335.

Copper plate: [DM]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 24/597. 460×300/340; engraving proof *r* [pencil] 'Croton triglandulosum' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 296; col. engraving 1983 *BF*: pl. 311.

A7/356 **Sebastiana chamaelea** (Linnaeus) J. Mueller in A. de Candolle, *Prodr.* **15** (2): 1175 (1866).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 423–424 'Caturus herbacea'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '189' [unknown]; *v* 'Tragia chamolea Linn' [unknown]; 'Caturus herbacea' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/295.
Bacstrom, S. Ms.: 132.

ULMACEAE

A7/357 **Celtis paniculata** (Endlicher) Planchon, *Annls Sci. nat.*, sér. 3, **10**: 305 (1848).

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 291–292 'Celtis glabella'; Britten, J. 1905 *Ill.*: 90 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* outline drawing: pencil outlines [SP[?]]; [pencil] 'Celtis glabella' [unknown]; [ink] 'Endeavours River' [JB]. 365×265/315.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 545×350/335.

Copper plate: [DM]; Bacstrom, S. Ms.: 138; [not in Brown]. 455×295/300; engraving proof; lithograph Britten, J. 1905 *Ill.*: pl. 297; col. engraving 1983 *BF*: pl. 312.

A7/358 Ficus superba var. henneana (Miquel) Corner, *Gdns' Bull., Singapore* **17**: 376 (1960).

Specimen: Booby Island.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 630–631 'Ficus maculata'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The fruit when young pale green with white specks when older whitish green ting'd w^{t} red w^{t} white specks when ripe dark black purple w^{t} white specks.' [SP]; 'Ficus maculata' [unknown]; [ink] 'Booby Island' [JB]. 545×350/360.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1782'. 545×345/360; see *J. Bot.* **39** 1901: t. 417.
Bacstrom, S. Ms.: 140.

A7/359 Ficus obliqua G. Forster, *Fl. ins. austr.*: 77 (1786) var. obliqua. (1786).

Specimen: Endeavour River, Booby Island.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 631–632 'Ficus virginea'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '18' [?]; *v* 'Ficus virginea' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/340.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}'. 545×350/325.
Bacstrom, S. Ms.: 140.

A7/360 Ficus platypoda var. angustata (Miquel) Corner, *Gdns' Bull., Singapore* **21** (1): 27 (1965).

Specimen: 2 sheets, Bustard Bay, Bay of Inlets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 153–155, **2**: 190 'Ficus lutea'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'not so many' [unknown]; *v* 'The figs are some of the deeper than those that are collourd & some much paler.' [SP]; 'Ficus lutea' [unknown]; '117' [unknown]; [ink] 'Bustard bay' [JB]. 545×350/380.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1782'. 545×350/400.
Bacstrom, S. Ms.: 140.

A7/361 Ficus opposita Miquel, *Lond. J. Bot.* **7**: 426 (1848) var. opposita.

Specimen: 2 sheets, Bay of Inlets, Palm Island, Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 159–160 'Ficus scabrosus'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'comes out singly' [SP]; *v* 'The leaves above grass green vein'd w^{t} lighter the largest veins having a cast of purple the under side pale green with pale prominent veins. the fruit green stain'd w^{t} purple as is the petiole & young stalks.' [SP]; '3' [unknown]; '143' [unknown]; 'Ficus scabrosa' [unknown]; [ink] 'Thirsty Sound' [JB]. 470×290/330.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1782'. 545×350/375.
Bacstrom, S. Ms.: 140.

A7/361a **Ficus racemosa** Linnaeus var. **vesca** (F. Mueller ex Miquel) Barrett, *Bull. Torrey bot. Club* **73** (3): 323 (1946).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 475–476 'Ficus caudiciflora'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Ficus caudiciflora' [unknown]; [ink] 'Endeavours River' [JB]. 545×370/455.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, Pinx^{t} 1782'. 545×350/445; see Beaglehole, J.C. 1962 **2**: pl. vi col. pl.
Bacstrom, S. Ms.: 140.

URTICACEAE

A7/362 **Pipturus argenteus** (G. Forster) Weddell in A. de Candolle, *Prodr.* **16** (1): 235^{19} (1869).

Specimen: *, no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 292, **4**: 488, 611 'Urtica argentea'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Urtica argentea' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/420.
Bacstrom, S. Ms.: 126.

A7/363 **Dendrocnide moroides** (Weddell) Chew, *Gdns' Bull., Singapore* **21**: 204 (1965).

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 484–485 'Morus incendiarius'; Britten, J. 1905 *Ill.*: 90 *pro descr.*; 1973 *CF*: pl. 27 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves above grass green w^{t} hollow veins the under side much paler w^{t} prominent veins fruit lilac colour' [SP]; 'Morus incendiarius' [unknown]; [ink] 'Endeavours River.' [JB]. 545×350/370.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}, 1780'. 545×345/350.

Copper plate: [DM]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 27/667. 460×295/330; engraving proof; lithograph Britten, J. 1905 *Ill.*: pl. 298; engraving 1973 *CF*: pl. 27; col. engraving 1983 *BF*: pl. 313.

CASUARINACEAE

A7/364 **Casuarina littoralis** Salisbury, *Prodr. stirp.*: 2 (1796).

Specimen: no locality.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 96–98 'Casuarina stricta'; Solander, D. Slip Catalogue **xviii**: 619–624.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Stiles of the female flowers Crimson the hairs on the peduncle the same the anthera ferruginous' [SP]; 'Obs It is a Dici [?] plant. Therefore the fruit is to be drawn on a separat Branch' [unknown]; 'Casuarina stricta' [unknown]; '4' [unknown]; '7 [[4]] 3' [unknown]; [ink] 'Botany Bay' [JB]. 540×345/430.
Bacstrom, S. Ms.: 126.

A7/365 **Casuarina torulosa** Dryander in Aiton, *Hort. Kew. ed.* 1, **3**: 320 (1789).

Specimen: Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 185, 189–190 'Casuarina suberosa'; Solander, D. Slip Catalogue **xviii**: 633–636.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '158' [unknown]; 'Casuarina suberosa' [unknown]; '7' [unknown]; [ink] 'Thirsty Sound.' [JB]. 540×350/460.
Bacstrom, S. Ms.: 126.

ORCHIDACEAE

A8/366 **Dendrobium discolor** Lindley, *Bot. Reg.* **27**: t. 52, *Misc.*: 21 (1841).

Specimen: Bustard Bay, Bay of Inlets, Cape Grafton.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 521–523, 529–530 'Epidendrum exaltatum'; Britten, J. 1905 *Ill.*: 91 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Epidendr. exaltatum' [unknown]; [ink] 'Endeavours River' [JB]. 540×355/475.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'. 545×365/455; see Carr, D.J. [Ed.] 1983 pl. 166 p. 173.

Copper plate: [GS, '1783']; Bacstrom, S. Ms.: 122; [not in Brown]. 460×295/455; engraving proof *r* [pencil] 'Epidendrum exaltatum' [unknown]; 'G^{d}: Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 299; col. engraving 1983 *BF*: pl. 314.

A8/367 **Dendrobium canaliculatum** R. Brown, *Prodr.*: 333 (1810).

Specimen: * (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 511–513 'Epidendrum canaliculatum'; Britten, J. 1905 *Ill.*: 91 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The colour of the Bark pale brown umber.' [SP]; 'Epidendr canaliculatum' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/290.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1780'; [pencil] 'All the Petals are blunt' [unknown]. 540×360/395.

Copper plate: [DM]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 24/586. 460×295/395; engraving proof *r* [pencil] 'Epidendrum canaliculatum' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 300; col. engraving 1983 *BF*: pl. 315.

A8/368 **Dendrobium rigidum** R. Brown, *Prodr.*: 333 (1810).

Specimen: * [NB. original sketch is the iconotype viz. R. Brown *loc. cit.*].

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 504–506 'Epidendrum rigidum'; Britten, J. 1905 *Ill.*: 91 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The outer petala greenish white ting'd w^{t} red the inner are Buff colour edg'd w^{t} dark red. leaves yellow green stalks & membrane at the bottom of the leaves ash colour' [SP]; 'Epidendrum rigidum' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/305.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore. Nodder, Pinx:^{t} 1780'. 545×350/325.

Copper plate: [GS]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 24/585. 455×300/285; engraving proof *r* [pencil] 'Epidendrum rigidum' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 301; col. engraving *BF*: pl. 316 [in preparation].

A8/369a **Prasophyllum striatum** R. Brown, *Prodr.*: 318 (1810).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 14–16 'Ophryoides paradoxa'; Britten, J. 1905 *Ill.*: 92 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'pale green purple strip' 'edge white' 'dark green' 'as the first' 'white' 'yellow' 'pale green' [unknown]; *v* 'The Stalk & leaf vivid grass green turning greyish towards the bottom & then white, the bulb white' [SP]; 'Ophryoides paradoxa' [unknown]; '15' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/275.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'. 545×365/275.

Copper plate: [DM]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 27/656. 455×295/275; engraving proof *r* [pencil] 'Ophryoides paradoxa' [unknown]; 'Dm Mackenzie'; lithograph Britten, J. 1905 *Ill.*: pl. 302A; col. engraving *BF*: pl. 317 [in preparation].

A8/369b **Pterostylis revoluta** R. Brown, *Prodr.*: 327 (1810).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 27–29 'Arethusa tetrapetala'; Britten, J. 1905 *Ill.*: 92 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Pterostylis revoluta, but the radical leaves belong to acuminata [?]' [unknown]; *v* 'The leaves a delicate grey green' [SP]; 'Arethusa tetrapetala' [unknown]; '82' [unknown]; [ink] 'Botany Bay' [JB]. 370×265/265.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. pinx^{t} 1780'; [pencil] 'The leaves a little broader they don't Belong to this species' 'finer' 'Pterostylis revoluta' [unknown]. 545×350/275.

Copper plate: [GS]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 24/584. 460×300/270; engraving proof *r* [pencil] 'Arethusa tetrapetala' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 302B; col. engraving *BF*: pl. 318 [in preparation].

BURMANNIACEAE

A8/369C **Burmannia juncea** Solander ex R. Brown, *Prodr.*: 265 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 399–400, 446–447 'Sisyrinchioides graminea'; Solander, D. Slip Catalogue **VIII**: 259–262; Britten, J. 1905 *Ill.*: 92 *pro descr.*

Finished drawing: watercolours *r* [pencil] 'Burmannia juncea' [unknown]; *v* 'The middle pale grey green the aloe delicate violet colour' [SP]; 'Sisirynchioides graminea' [unknown]; [ink] 'Endeavours River' [JB]. 360×270/190.

Copper plate: [DM]; Bacstrom, S. Ms.: 49; Brown, R. Ms.: 25/603. 460×300/190; engraving proof *r* [pencil] 'Burmannia juncea' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 302C; col. engraving *BF*: pl. 319 [in preparation].

IRIDACEAE

A8/370 **Patersonia sericea** R. Brown, *Bot. Mag.*: t. 1041 (1807).

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 108–109 'Sisirynchium tripetalum'.

Outline drawing: pencil outlines [SP]: *v* [pencil] '98' [unknown]; 'Sisirynchium tripetalum' [unknown]; [ink] 'Bustard Bay' [JB]. 370×265/70.
[Not in Bacstrom].

HAEMODORACEAE

A8/371 **Haemodorum coccineum** R. Brown, *Prodr.*: 300 (1810).

Specimen: Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 286–287 'Wachendastrum corymbosum'; Britten, J. 1905 *Ill.*: 93 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Wachendastrum corymbosum' [unknown]; [ink] 'Endeavours River' [JB]. 540×365/500.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller, pinx^{t}. 1773.'; *v* [pencil] 'Wachendastrum corymbosum' [unknown]. 535×355/455; see Carr, D.J. [Ed.] 1983 pl. 167 p. 174.

2 Copper plates: [TS]; Bacstrom, S. Ms.: 18; Brown, R. Ms.: 11/45. 460×300/410; 3 engraving proofs: 1 – *r* [pencil] ‘Wachendastrum corymbosum’ [unknown]; 2 – there are two states of this proof; lithograph Britten, J. 1905 *Ill.*: pl. 303; col. engraving *BF*: pl. 320, 321 [in preparation].

Notes: the first engraving is reproduced in Britten and is Plate 320 in *Banks’ Florilegium*.

DIANELLACEAE

A8/372 **Dianella caerulea** Sims, *Curtis’s bot. Mag.* **15**: t. 506 (1801).

Specimen: 3 sheets, Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **I**: 115, 155 ‘Anthericum caeruleum’; Britten, J. 1905 *Ill.*: 93 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The flowers & buds pale blue w^{t} a cast of purple the very young buds more purple the anthera pale yellow filaments orange peduncle stain’d w^{t} purple. leaves grass green turn^{g} gradually white at the bottom’ [SP]; ‘Anthericum caeruleum’ [unknown]; ‘118’ [unknown]; [ink] ‘Bustard Bay’ [JB]. 540×355/495.

Finished drawing: watercolours *r* [ink] ‘Jn^{o}: Cleveley Jun^{r} Pinx^{t} 1775.’; *v* [pencil] ‘Anthericum Caeruleum’ [unknown]. 535×350/500.

Copper plate: [JG]; Bacstrom, S. Ms.: 48; Brown, R. Ms.: 13/314. 460×300/445; engraving proof *r* [pencil] ‘Anthericum [[ensatum]] caeruleum’ [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 304; col. engraving *BF*: pl. 322 [in preparation].

PHILESIACEAE

A8/373 **Eustrephus latifolius** R. Brown ex Sims, *Curtis’s bot. Mag.* **31**: t. 1245 (1809) var. LATIFOLIUS.

Specimen: Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **I**: 12–13 ‘Convallaria barbata’; Britten, J. 1905 *Ill.*: 93 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The flower white w^{t} a light tinge of lilac the leaves grass green the Stalks yellow green’ [SP]; ‘Convallaria barbata’ [unknown]; ‘47’ [unknown]; [ink] ‘Botany Bay’ [JB]. 370×265/305.

Finished drawing: watercolours *r* [ink] ‘James Miller Pinxt. 1775.’; *v* [pencil] ‘Convallaria barbata’ [unknown]. 535×355/305.

Copper plate: [CW]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 13/316. 460×300/300; engraving proof *r* [pencil] ‘Convallaria barbata’ [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 305; col. engraving *BF*: pl. 323 [in preparation].

A8/374 **EUSTREPHUS LATIFOLIUS** R. Brown ex Sims var. ANGUSTIFOLIUS (R. Brown) Bentham, *Fl. austral.* **7**: 18 (1878).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 142 'Convallaria angustifolia'; Britten, J. 1905 *Ill.*: 93 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '19' [unknown]; [ink] 'Bustard Bay' [JB]; *v* [pencil] 'The flowers pale lilac colour anthera yellow buds pale green ting'd w^{t} purple.' [SP]; 'Convallaria angustifolia' [unknown]; '108' [unknown]. 470×290/430.

FINISHED DRAWING: watercolours *r* [ink] 'James. Miller pinxt 1775.'; *v* [pencil] 'Convallaria angustifolia' [unknown]. 530×355/430.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 13/317. 460×295/425; engraving proof *r* [pencil] 'Convallaria angustifolia' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 306; col. engraving *BF*: pl. 324 [in preparation].

PHORMIACEAE

A8/375 **BLANDFORDIA NOBILIS** Smith, *Exotic Botany* **1**: 5, t. 4 (1804).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 101 'Alooides polyanthes'; Britten, J. 1905 *Ill.*: 93 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The top of the flower yellow which suddenly turns scarlet & this turns darker towards the base of the flower & into a deep red on the stalks the stalks among the flowers & at the top dirty purple the bractea stain'd w^{t} red. the leaves grass green turning white at the bottom. the stile pale yellow green.' [SP]; 'Aloides polyanthes' [unknown]; '74' [unknown]; [ink] 'Botany Bay' [JB]. 545×360/470.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt. 1775'; *v* [pencil] 'Aloides polyanthus' [unknown]; 'Botany Bay' [unknown]. 535×355/490; see Carr, D.J. [Ed.] 1983 pl. 168 p. 175.

COPPER PLATE: [EW]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 11/265. 460×295/445; engraving proof *r* [pencil] 'Alooides Polyanthes' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 307; col. engraving *BF*: pl. 325 [in preparation].

COLCHICACEAE

A8/376 **SCHELHAMMERA MULTIFLORA** R. Brown, *Prodr.*: 274 (1810).

SPECIMEN: Endeavour River (syntype).

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **2**: 292, **4**: 533–534 'Convallaria erecta'; Britten, J. 1905 *Ill.*: 94 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '76' [?] [unknown]; *v* 'The flower white anthera purple. buds pale green.' [SP]; 'Convallaria erecta' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/260.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1775.'; *v* [pencil] 'Convallaria erecta' 'N:H.' [unknown]. 540×365/255.

Copper plate: [GS]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 13/318. 460×295/255; engraving proof *r* [pencil] 'Convallaria erecta' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 308; col. engraving *BF*: pl. 326 [in preparation].

ANTHERICACEAE

A8/377 **Thysanotus banksii** R. Brown, *Prodr.*: 283 (1810).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 268–269 'Anthericum fimbriatum'; Britten, J. 1905 *Ill.*: 94 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '18' [unknown]; *v* 'Anthericum fimbriatum' [unknown]; '379' [unknown]; [ink] 'Endeavours River' [JB]. 475×290/420.

Finished drawing: watercolours *r* [ink] 'Jn:° Cleveley Jun^{r} Pinx^{t} 1774.'; *v* [pencil] 'Anthericum Fimbriatum' [unknown]. 535×345/430.

Copper plate: [DM]; Bacstrom, S. Ms.: 48; Brown, R. Ms.: 11/259. 460×295/425; engraving proof *r* [pencil] 'Anthericum fimbriatum' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 309; col. engraving *BF*: pl. 327 [in preparation].

PHILYDRACEAE

A8/378 **Philydrum lanuginosum** Gaertner, *Fruct. Sem. pl.* **1**: 62, t. 16, f. 10 (1788).

Specimen: Endeavour River (holotype).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 309–311 'Philydrum lanuginosum'; Britten, J. 1905 *Ill.*: 94 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala & anthera yellow the nerve in the middle of the Petala ting'd w^{t} green' [SP]; 'Philydrum lanuginosum' [unknown]; [ink] 'Endeavours River' [JB]. 545×365/470.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller. pinx^{t} 1773.'; 'Philydrum lanuginosum' [unknown]. 505×335/480; see Carr, D.J. [Ed.] 1983 pl. 169 p. 176.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 4; Brown, R. Ms.: 1/2. 460×295/440; engraving proof *r* [pencil] 'Philydrum lanuginosum Banks' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 310; col. engraving *BF*: pl. 328 [in preparation].

XYRIDACEAE

A8/379 **Xyris paludosa** R. Brown, *Prodr.*: 256 (1810).

Specimen: Endeavour River (syntype).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 566 'Xyris paludosa'.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '23' [unknown]; *v* 'Xyris paludosa' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/300.

Finished drawing: watercolours *r* [ink] 'James Miller pinxt'. 540×350/320.
Bacstrom, S. Ms.: 12.

A8/380 **Xyris pauciflora** Willdenow, *Phyt.*: 2, t. 1, f. 1 (1794).

Specimen: Endeavour River, Point Lookout.

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 566 'Xyris pusilla'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil 'Xyris pusilla'; [ink] 'Endeavours River' [JB]. 370×265/225.

Finished drawing: watercolours *r* [ink] 'James Miller pinxt'. 535×350/235.
Bacstrom, S. Ms.: 12.

COMMELINACEAE

A8/381 **Pollia macrophylla** (R. Brown) Bentham, *Fl. austral.* **7**: 90 (1878).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 336–338 'Commelina elatior'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The 3 upper petala pale blue w^{t} a cast of violet the 3 under white stamina pale blue anthera yellow buds white bractea white ting'd w^{t} green' [SP]; 'Commelina elatior' [unknown]; [ink] 'Endeavours River' [JB]. 535×365/385.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx$^{t.}$ 1773.'. 540×360/390.
[Not in Bacstrom].

CARTONEMATACEAE

A8/382 **Cartonema spicatum** R. Brown, *Prodr.*: 271 (1810).

Specimen: Endeavour River.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 270–271 'Tradescantia hispidiuscula'; Solander, D. Slip Catalogue **1**: 159–163; Britten, J. 1905 *Ill.*: 94 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '8' [?] [unknown]; 'hispidiuscula' [unknown]; *v* 'Tradescantia hispidiuscula' [unknown]; [ink] 'Endeavours River' [JB]. 365×270/175.

Finished drawing: watercolours *r* [ink] 'James Miller Pinxt: 1775'; *v* [pencil] 'Tradescantia hispidiuscula'. 540×355/170.

Copper plate: [DM]; Bacstrom, S. Ms.: 48; Brown, R. Ms.: 16/394. 460×295/165; engraving proof *r* [pencil] 'Tradescantia hispidiuscula' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 311; col. engraving *BF*: pl. 329 [in preparation].

LOMANDRACEAE

A8/383 **Lomandra banksii** (R. Brown) Lauterbach, *Bot. Jb.* **50**: 294 (1913).

Specimen: 3 sheets, Endeavour River (syntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 298–299 'Tillandsioides palmjuncus'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Tillandsioides palmjuncus' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/410.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 545×350/450.
Bacstrom, S. Ms.: 140.

A8/384 **Lomandra banksii** (R. Brown) Lauterbach, *Bot. Jb.* **50**: 294 (1913).

Specimen: 2 sheets, Endeavour River (syntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 327 'Tillandsioides acaulis'.

Outline drawing: pencil outlines with colour references [SP]; *r* 'fruit yellow' [unknown]; *v* 'Berries dark grass + lurid green yellow green at the joining stalk purple + green leaves pea green.' [SP]; 'Tillandsioides acaulis' [unknown]; [ink] 'Endeavours River' [JB]. 535×360/395.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1782'. 540×350/440.
Bacstrom, S. Ms.: 140.

A8/385 **Lomandra longifolia** Labillardière, *Nov. Holl. pl.* **1**: 92, t. 119 (1805). subsp. LONGIFOLIA.

Specimen: 3 sheets, Botany Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 70–72 'Tillandsioides graminea'; Britten, J. 1905 *Ill.*: 95 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '3 cornerd' [unknown]; *v* 'Tillandsioides graminea' [unknown]; '91' [unknown]; [ink] 'Botany Bay' [JB]. 540×365/505.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder pinx^{t} 1781'. 545×370/495.

Copper plate: [DM]; Bacstrom, S. Ms.: 136; [not in Brown]. 460×300/445; engraving proof *r* [pencil] 'Tillandsioides graminea' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 312; col. engraving *BF*: pl. 330 [in preparation].

A8/386 **Lomandra multiflora** (R. Brown) Britten, *Ill. Bot. Cook's Voy.* **3**: 95 (1905).

Specimen: 3 sheets, Thirsty Sound, Bay of Inlets.

Manuscript: Solander, D. Pl. Nov. Holl. **2**: 166 'Triglochin dioicum'; Britten, J. 1905 *Ill.*: 95 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '77' [unknown]; *v* 'The petala pale yellow calyx green stain'd w^{t} dark purple. the leaves [dar] grass green.' [SP]; 'Triglochin dioicum' [unknown]; '3' [unknown]; '133' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/315.

Finished drawing: watercolours *r* [ink] 'Jn:° Cleveley Jun^{r} Pinx^{t} 1774.'; *v* [pencil] 'Triglochin dioicum' [unknown]. 535×340/325.

Copper plate: [DM]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 14/327. 460×295/320; engraving proof *r* [pencil] 'Triglochin dioicum' [unknown]; [not in Britten]; col. engraving *BF*: pl. 331 [in preparation].

A8/387 **Lomandra multiflora** (R. Brown) Britten, *Ill. Bot. Cook's Voy.* **3**: 95 (1905).

Specimen: 3 sheets, Endeavour River (syntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **3**: 338–339 'Triglochin paniculatum'; Britten, J. 1905 *Ill.*: 95 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Triglochin panniculatum' [unknown]; [ink] 'Endeavours River' [JB]. 545×350/475.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1775.'; *v* [pencil] 'Triglochin panniculatum E.R.-' [unknown]. 530×355/485.

Copper plate: [JG]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 14/328. 460×295/450; engraving proof *r* [ink] 'Goldar'; lithograph Britten, J. 1905 *Ill.*: pl. 313; col. engraving *BF*: pl. 332 [in preparation].

A8/388 **Lomandra laxa** (R. Brown) Lee, *Contr. N.S.W. natn. Herb.* **3** (3): 153 (1962).

Specimen: 2 sheets, Bustard Bay.

Manuscript: Solander, D. Pl. Nov. Holl. **1**: 130 'Triglochin coloratum'; Britten, J. 1905 *Ill.*: 95 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '20' [unknown]; *v* 'Triglochin corollatum' [unknown]; '110' [unknown]; [ink] 'Bustard Bay' [JB]. 475×290/370.

Finished drawing: watercolours *r* [ink] 'John Cleveley Jun^{r} Pinx^{t} 1774'; *v* [pencil] 'Triglochin Corollatum' [unknown]. 535×350/370.

Copper plate: [JG]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 14/326. 460×295/365; engraving proof *r* [ink] 'Goldar'; lithograph Britten, J. 1905 *Ill.*: pl. 314; col. engraving *BF*: pl. 333 [in preparation].

XANTHORRHOEACEAE

A8/389 **XANTHORRHOEA RESINOSA** Persoon, *Syn. pl.* **1**: 370 (1805) subsp. RESINOSA.

SPECIMEN: 3 sheets, Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 79–80 'Acoroides resinifera'; Britten, J. 1905 *Ill.*: 95 *pro descr.*

OUTLINE DRAWING: pencil outlines [SP]; *r* [pencil] 'more obtuse & hairy' [unknown]; *v* 'The Stamina pale green upon a ground the colour of Terra. Colena the stalk & leaves grass green' [SP]; '90' [unknown]; 'Acoroides resinifera' [unknown]; [ink] 'Endeavours River' [JB]. 540×355/510.

FINISHED DRAWING: watercolours *r* [ink] 'James. Miller Pinxt 1775'; *v* [pencil] 'Acoroides resinifera' [unknown]. 540×350/510; see Carr, D.J. [Ed.] 1983 pl. 170 p. 176.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 11/264. 460×300/455; engraving proof *r* [pencil] 'Acoroides resinifera' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 315; col. engraving *BF*: pl. 334 [in preparation].

JUNCAGINACEAE

A8/390 **TRIGLOCHIN PROCERA** R. Brown, *Prodr.*: 343 (1810).

SPECIMEN: Botany Bay.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **1**: 62–63 'Veratroides hexagyna'; Britten, J. 1905 *Ill.*: 96 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '21' [unknown]; *v* 'The leaves & stalk a vivid grass green gradually turning white towards the bottom. the Stiles grass green w^{t} white hair the petala dirty pale yellow green.' [SP]; '23' [unknown]; 'Veratroides hexagyna' [unknown]; [ink] 'Botany Bay' [JB]. 475×290/440.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1775.'; *v* [pencil] 'Veratroides hexagynia' 'Bot. Bay' [unknown]. 540×350/470.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 11/266. 460×295/445; engraving proof *r* [pencil] 'Veratroides hexagyna' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 316; col. engraving *BF*: pl. 335 [in preparation].

ARACEAE

A8/391 **COLOCASIA ESCULENTA** (Linnaeus) Schott in Schott & Endlicher, *Melet. bot.*: 18 (1832).

SPECIMEN: Endeavour River.

MANUSCRIPT: Solander, D. Pl. Nov. Holl. **3**: 311–312 'Arum esculentum'.

Outline drawing: pencil outlines [SP]; *v* [pencil] 'The spatha & spadix buff colour the upper side of the leaves grass green the nerves somewhat paler & a little convex, the veins almost obliterated. the leaves below pale yellow green w^{t} convex & very pale nerves veins grass green' [SP]; 'Arum esculentum' [unknown]; [ink] 'Endeavours River' [JB]. 540×350/520.
Bacstrom, S. Ms.: 124.

ERIOCAULACEAE

A8/392 **Eriocaulon fistulosum** R. Brown, *Prodr.*: 255 (1810).

Specimen: 2 sheets, Endeavour River (syntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 542, 551–552, 553 'Eriocaulon striatum'; Britten, J. 1905 *Ill.*: 96 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'leaves & stalks fresh green flowers pale grey brown.' [SP]; 'Eriocaulon striatum' [unknown]; [ink] 'Endeavours River' [JB]. 370×265/280.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}. 1773.'; [pencil] 'Eriocaulon striatum' [unknown]. 535×360/280.

Copper plate: [WT]; Bacstrom, S. Ms.: 18; Brown, R. Ms.: 2/43. 460×295/280; engraving proof *r* [pencil] 'Eriocaulon striatum' [unknown]; lithograph Britten, J. 1905 *Ill.*: pl. 317; col. engraving *BF*: pl. 336 [in preparation].

GRAMINEAE

A8/393 **Leptaspis banksii** R. Brown, *Prodr.*: 211 (1810).

Specimen: 2 sheets, Endeavour River (syntypes).

Manuscript: Solander, D. Pl. Nov. Holl. **4**: 478–479, 483 'Pharoides graminifolia'; Britten, J. 1905 *Ill.*: 96 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '6 stamina' [unknown]; *v* 'The seeds lilac stript w^{t} yellow green, the leaves deep grass green w^{t} small dark veins stalks pale green.' [SP]; 'Pharoides graminifolia' [unknown]; [ink] 'Endeavours River' [JB]. 540×355/485.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder, pinx^{t}, 1780'. 540×355/460; see Carr, D.J. [Ed.] 1983 pl. 171 p. 177.

Copper plate: [GS]; Bacstrom, S. Ms.: 130; Brown, R. Ms.: 27/651. 460×300/455; engraving proof *r* [pencil] 'Pharoides graminifolia' [unknown]; 'G^{d} Sibelius'; lithograph Britten, J. 1905 *Ill.*: pl. 318; col. engraving *BF*: pl. 337 [in preparation].

ADDENDUM

p.64 A2/83 **Manuscript:** Solander, D. Pl. Nov. Holl. Systematic Index **4**: 37 [index entry only] 'Hedysarum monophylla'.

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CATALOGUE
OF THE
NATURAL HISTORY DRAWINGS
COMMISSIONED BY
JOSEPH BANKS
ON THE
ENDEAVOUR VOYAGE 1768–1771

held in the British Museum (Natural History)

Part 2: Botany
Brazil, Java, Madeira, New Zealand, Society Islands and Tierra Del Fuego

Judith A. Diment
Christopher J. Humphries
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INTRODUCTION

This volume is Part 2 of the catalogue of the natural history collections of drawings, manuscripts and specimens made by Sydney Parkinson (?1745–1771), Joseph Banks (1743–1820) and Daniel Solander (1733–1782) on James Cook's *Endeavour* voyage (1768–1771). This volume is concerned with the collections from Brazil, Java, Madeira, New Zealand, Society Islands and Tierra del Fuego. The collections from Australia were included in Part 1 of the catalogue (see Diment *et al.* 1984). A general introduction and a detailed account of the history of the collections was also included in Part 1 together with a bibliography. The aim of this catalogue is to relate the drawings, engravings and manuscripts to the plant specimens. It includes all the watercolour drawings but lists only those specimens that are illustrated.

Notes on the Graphic Record

Altogether, there are 964 catalogue entries, 414 for Australia (Diment *et al.* 1984) and 550 in this volume. Discrepancies in the numbering sequence are summarised in Table 1. Sydney Parkinson produced 943 botanical drawings, 269 of which are finished watercolour drawings (see Table 2). After the return of the *Endeavour* to England Banks employed five artists to complete another 595 drawings, working from Parkinson's field sketches and colour notes and the herbarium specimens. Frederick Polydore Nodder was the most prolific with 272 finished drawings with Thomas Burgis the least, with only three signed drawings. These figures may be underestimates however, as 110 drawings are unsigned. Also the artists' signatures on some of the drawings have been trimmed and there is doubt as to their identities. These entries in the catalogue are indicated by a square bracket and question mark after the artist's name.

Several of the unsigned drawings, although appearing to have been drawn by Parkinson, e.g. B 3, B 30, B 34, M 5, M 6, M 20, M 21, have been annotated by other scribes. The late Averil Lysaght (pers.comm.) suggested that some of these may have been drawn by Herman Spöring (?1733–1771), e.g. M 5, M 6, but there is insufficient evidence to be conclusive.

Parkinson usually either completed a drawing in full watercolours or made a pencil sketch with colour notes, e.g. Brazil 6/7. For much of the time Parkinson completed his drawings on the voyage shortly after the specimens were collected but a few of the finished drawings possess later dates. It is likely that the Brazilian finished drawings, dated 1769, were completed at sea on the voyage from Rio de Janeiro to Tierra del Fuego.

As discussed in Part 1, 18 engravers spent 13 years producing 743 plates of which 738 are extant (see Table 2). Since the publication of Part 1 of the Catalogue a further collection of eighteenth century proof engravings taken from the copper plates have been located at the Linnean Society, London. This collection of 47 engravings includes some of the best images which were sent to Linnaeus by Banks and they are discussed in correspondence between the two, also held at the Linnean Society.

The printing of *Banks' Florilegium* (see Schiff, B. 1983) now nearing the completion of the proofing stages by printers at the Edward Egerton-Williams Studio has given Edward

Egerton-Williams (Master Printer) and Christopher J. Humphries (Botanical Editor) a unique opportunity to assess the quality of the copper plate engraving. Such an assessment is somewhat complicated because in all cases (except one – SI 2/49) the plants are depicted life-size. Consequently, the size of each image varies from as little as 50 mm high for some of the 'alpic' plants of Tierra del Fuego up to 460 mm high for some of the tropical trees. Generally, the smaller images were depicted in much less detail than their larger counterparts. The majority of the plates are engraved but the complicated images (e.g. NZ 3/155) also include some etching and mezzotint work. The most productive engraver (Daniel Mackenzie), was also the most accomplished, showing considerable skill in both composition and ability to illustrate highlights. Botanically, his work was very accurate and his 'strong' engraving contributed to the contrasts apparent when printed in colour *à la poupée* from the plates themselves.

A comparison of the botanical specimens in the British Museum (Natural History) with the drawings shows three types of relationship. The most important specimens are those which directly relate to the drawings. A good example of an indisputable voucher specimen is *Knightia excelsa* R. Brown (NZ 3/155). Secondly, the vast majority of the specimens coincide with the drawing but are only partially represented in the artwork. Thirdly, many specimens have no obvious visual connection with the artwork, although the collection details suggest that they are the obvious voucher specimens in terms of the drawings and manuscripts. In these instances it is probable that Parkinson drew the image from one of a gathering which was probably discarded due to wilting.

BRAZIL, JAVA, MADEIRA, NEW ZEALAND, SOCIETY ISLANDS AND TIERRA DEL FUEGO

The localities in alphabetical order at which Banks and Solander collected plants are as follows (after Groves, 1962):

BRAZIL: Rio de Janeiro 13 November–7 December 1768
Isle of Raza 7 December 1768

JAVA: W. coast of Java, south of Anjer Point 2–4 October 1770
One of the Thousand Islands 8 October 1770
Batavia 10 October–25 December 1770
Cooper's Island 28–30 October 1770
Prince's Island 4–14 January 1771

MADEIRA: 13–18 September 1768

NEW ZEALAND:
North Island
Teoneroa or Poverty Bay 8–11 October 1769
Tegadu Bay 20–22 October 1769
Tolaga Bay 23–29 October 1769
Opoorage or Mercury Bay 5–15 November 1769
Oohoorage or Hauraki Bay 19–22 November 1769
Bay of Islands 29 November–5 December 1769

Motu aro Island 29 November and 2 December 1769
Moturua Island 3 December 1769
South Island
Totara nui or Queen Charlotte Sound 15 January–6 February 1770
Admiralty Bay 26–31 March 1770

SOCIETY ISLANDS:
Otaheite 13 April–1 June, 4 June–13 July 1769
Imao or York Island 1–4 June 1769
Huahine 16–19 July 1769
Ulhietea 20–24 July, 1–9 August 1769
Otaha 28–29 July 1769

TIERRA DEL FUEGO: Bay of Success 15–21 January 1769

EXPLANATION OF CATALOGUE ENTRY

SAMPLE ENTRY

B5 STIGMAPHYLLON CILIATUM (Lamarck) Adr. Jussieu in A. Saint-Hilaire, *Fl. Bras. Merid.* **3**: 49 (1833).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit Fl. Bras.: 86 'Banisteria ciliata'; Solander, D. Slip Catalogue XI: 91–92; Banks, J. Cat. Pl.: 13.

FINISHED DRAWING: watercolours *r* [ink] 'Bannisteria ciliata.' [SP]; 'Sydney Parkinson pinx^t 1768.'; [pencil] 'Brazil.' [JB]. 465×280/425.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 7/164. 460×295/420; engraving proof *r* [pencil] 'Banisteria ciliata' [unknown]; col. engraving 1984 *BF*: pl. 341; see Adams, B. 1986 col. pl.

CATALOGUE NUMBER The catalogue number includes a letter denoting country, e.g. B for Brazil, J for Java, M for Madeira, NZ for New Zealand, SI for Society Islands and TF for Tierra del Fuego, followed by the volume number (for NZ and SI) and the folio number of the drawings.

e.g. B5=Brazil, folio 5
(NZ 1/1=New Zealand Volume 1 Folio 1).

NAME The modern botanical name and its place and date of valid publication are given. Abbreviations of serial titles comply with the principles adopted in the fourth edition of the *World List of Scientific Periodicals*. Abbreviations of book titles follow F.A. Stafleu and R.S. Cowan 1976. *Taxonomic Literature* Volume 1–. Abbreviations for herbaria follow P.K. Holmgren, W. Keuken & G.K. Schofield 1981. *Index berbariovum* Part I. The herbaria of the world.

SPECIMEN(S) Details of specimens located in the Department of Botany, British Museum (Natural History). The locality is recorded when it is in Daniel Solander, Jonas Dryander, J.J. Bennett or Robert Brown's hand. Holotypes, isotypes, syntypes and designated lectotypes are indicated. Only specimens that relate to drawings are included.

e.g. B5 STIGMAPHYLLON CILIATUM
SPECIMEN: Rio de Janeiro.

MANUSCRIPT 1. The volume and page reference to the original description of the plant in Daniel Solander's Plantae Terra del Fuego (Pl. Terra del Fuego), Plantae Otaheitenses (Pl. Otaheit.), Plantae Insularum Oceani Pacifici [(Pl. Ins. Ocean Pac.), Plantae Australiae (Novae Zelandiae)] (Pl. Austral. (NZ)), Plantae Javanenses (Pl. Java.), is noted together with the name used in the manuscript by Solander. In most cases the manuscript name is a synonym.

e.g. SI 2/1 MERREMIA TURPETHUM
Manuscript: Solander, D. Pl. Otaheit.: 63–64 'Convolvulus alatus'.

For Madeira and Brazil the volume and page references in Spöring's Primitiae Florae Maderensis . . . (Primit. Fl. Mad.) and Primitiae Florae Brasiliensis . . . (Primit. Fl. Bras.) are cited.

2. Where relevant the volume and page reference to the descriptions in Daniel Solander's Manuscript Slip Catalogue is noted

e.g. B5 STIGMAPHYLLON CILIATUM
Solander, D. Slip Catalogue XI: 91–92.

3. This is followed by the reference in Joseph Banks' manuscript catalogue of the plants collected at Madeira, Brazil, Tierra del Fuego and the Society Islands

e.g. B5 STIGMAPHYLLON CILIATUM
Banks, J. Cat. Pl.: 13.

OUTLINE DRAWING These are the outline drawings made by Sydney Parkinson on the voyage (see Part 1, fig. 4A,B,C).

FINISHED DRAWING These are either completed drawings made by Sydney Parkinson on the voyage or by the team of artists working in London 1773–1784 (see Part 1, fig. 5).

The following details are given for each drawing:

1. Media, i.e. pencil, ink, watercolours etc.

2. Sydney Parkinson's initials [SP] are given in square brackets for his unsigned drawings.

3. All the annotations on the drawings that are considered to have been made in Banks' lifetime are recorded.

Annotations on the recto of the drawing are preceded by *r* and those on the verso by *v*. All annotations are included between inverted commas. The medium of the annotations (i.e. pencil or ink) is noted in square brackets.

The annotations include colour notes by Parkinson, the manuscript name of the plant assigned by Banks and Solander, and the locality from which the specimen was collected.

In some instances part of the annotation has been partially deleted by Parkinson, where it is still possible to read these they have been transcribed and enclosed between double square brackets, e.g. [[]]. Some of the finished drawings also have correction notes which are instructions to the engravers. Many of Parkinson's drawings also have a number which is recorded.

When a drawing has been published the reference is given to the publication; this has been done only for the most important works including:

ADAMS, B. A. Flowering of the Pacific being an account of Joseph Banks' travels in the South Seas and the story of his *Florilegium*, Sydney, Collins, 194p., 17 pages of col. plates.

BEAGLEHOLE, J.C. [Editor] 1962. *The Endeavour journal of Joseph Banks 1768–1771*. Sydney (The Trustees of the Public Library of New South Wales in association with Angus and Robertson) 2 vols. (Vol. 1, xxvii–476 pp. 60 pls; Vol. 2, xvi–406 pp. 57 pls).

e.g. B24 BOUGAINVILLEA SPECTABILIS
see Beaglehole, J.C. 1962 **1**: pl. 11 col. pl.

STEARN, W.T. 1968. The botanical results of the *Endeavour* Voyage. *Endeavour* **XXVII**: 3–10 pls 1–9.

e.g. SI1/18 SPONDIAS DULCIS
see Stearn, W.T. 1968 *Endeavour* **XXVII** p. 5 fig. 3, col. pl.

STEARN, W.T. 1969. A Royal Society appointment with Venus in 1769; the voyage of Cook and Banks in the *Endeavour* in 1768–1771 and its botanical results. *Notes and Records of the Royal Society of London* **24**: 64–90, 2 pls.
e.g. J35 SARCOLOBUS GLOBOSUS SUBSP. GLOBOSUS
see Stearn, W.T. 1969. *Notes and Records of the Royal Society of London* **24**: pl. 6 fig. 2, col. pl.

CARR, D.J. [Editor] 1983. *Sydney Parkinson Artist of Cook's Endeavour Voyage*. Canberra (British Museum (Natural History) in association with Australian National University Press) 290 pp 253 pls.
e.g. B1 PERESKIA GRANDIFOLIA
see Carr, D.J. [Ed] 1983 pl. 51 p. 56, col. pl.

COOK, J. 1977. *The journal of H.M.S. Endeavour 1768–1771*. Guildford (Genesis Publications Limited) 527 pp. 40 pls.
e.g. B6/7 TETRAPTERYS PHLOMOIDES
see Cook, J. 1977 pl. 1, col. pl.

MOORE, D.M. 1983. *Flora of Tierra del Fuego*. Oswestry, (Anthony Nelson) 396 pp 284 figs and pls.
e.g. TF5 BERBERIS ILICIFOLIA
see Moore, D.M. 1983 pl. 5c, col. pl.

The size of the drawing is recorded in millimetres as follows: height×width/height of plant drawn,
e.g. B5 STIGMAPHYLLON CILIATUM
465×280/425.

Copper plate The name of the engraver is recorded by initials in square brackets e.g. [GS]. The name of the engraver is usually taken from Bacstrom's Catalogue of the botanical drawings in the library of Sir Joseph Banks, and/or occasionally the engraving proof is signed by the engraver.

The copper plates were catalogued by Robert Brown when they were stored in boxes in the British Museum. The box number and plate number is indicated

e.g. B5 Stigmaphyllon ciliatum
Brown, R. Ms.: 7/164.

This is plate 164 in box 7. Occasionally the plate number is missing and it has only been possible to assign a box number.

The size of the copper plate is recorded in millimetres as follows:
height×width/height of plant engraved

e.g. B5 Stigmaphyllon ciliatum
460×295/420.

Engraving proof The engraving proofs taken from the copper plates in the eighteenth century are recorded. (See Part 1, fig. 7.) All annotations are noted as for the drawings.

Engraving The black and white engravings made from the copper plates and published in *Cook's Florilegium* (Blunt & Stearn, 1973) are recorded including the date and plate number

e.g. J21 Peltophorum pterocarpum
engraving 1973 *CF*: pl. 28.

The coloured engravings made from the copper plates and published in *Banks' Florilegium* by the British Museum (Natural History) jointly with Alecto Historical Editions (Diment & Humphries [Eds] 1980–) are recorded with date of publication and plate number

e.g. B5 Stigmaphyllon ciliatum
col. engraving 1984 *BF*: pl. 341.

ABBREVIATIONS

Names of Engravers

B	Bannerman
RB	Robert Blyth
FC	Francis Chesham
D	Van Drazowa
JG	Jabez Goldar
JL	John Lee
DM	Daniel Mackenzie
M	Jean-Baptiste Michell
TM	Thomas Morris
FPN	Frederick Polydore Nodder
JR	John Roberts
TS	Thomas Scratchley
GS	Gerald Sibelius
G. Smith	Gabriel Smith
WS	William Smith
WT	William Tringham
EW	Edward Walker
CW	Charles White

Other names

JB	Joseph Banks
JFM	John Frederick Miller
SP	Sydney Parkinson
Sm.	James Edward Smith
HS	Herman Spöring

Countries

A	Australia
B	Brazil
J	Java
M	Madeira
NZ	New Zealand
SI	Society Islands
T	Tierra del Fuego

*Items prefixed by an asterisk were not seen by the compilers.

INDEXES

1. Index of plant names – alphabetical, including the family names, modern species names and manuscript names with reference to the catalogue entry number.
2. Geographical index – alphabetical for localities with reference to the catalogue entry number.
3. Name index – alphabetical for artists and engravers, with reference to the catalogue entry number.

MICROFICHE

A microfiche collection of all specimens, drawings, engravings and lithographs recorded in the catalogue is available from Meckler/Chadwyck-Healey Scientific Micropublishing, 11 Ferry Lane West, Westport, CT 06880, U.S.A.

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SCHIFF, B. 1983. 'A Flowering of Science: Plants from Captain Cook's First Voyage', a first edition on exhibition. *Smithsonian* **13** (No. 12): 76–85.

ADDENDA AND CORRIGENDA TO VOL. 1

Since the publication of Part 1 several plant specimens, notably specimens taken by Robert Brown on the Flinders voyage (1801–1805), have been located in archived museum collections. These are mostly duplicates of existing specimens but the few which provide new information deserve special mention:

A1/17	*Polygala rhinanthoides* Banks & Solander ex Bentham. 2 isotypes from Endeavour River.
A1/19	*Comesperma secundum* Banks & Solander ex de Candolle. 2 isotypes from Endeavour River.
A2/64	*Lotus australis* Andrews. 1 specimen with the new locality for Endeavour River.
A3/130	*Callistemon viminalis* (Solander & Gaertner) G. Don in London. 6 isotypes from Endeavour River.
A6/265	*Buchnera tetragona* R. Brown. 1 isotype from Endeavour River.

A7/362 *Pipturus argenteus* (G. Forster) Weddell in A. de Candolle. 2 specimens without locality.
A8/377 *Thysanotus banksii* R. Brown. 1 isotype from Endeavour River.

The following corrections should be made:
CONTENTS, microfiche 29, not 28.
p.28 delete (Fig. 9) on line 13.
p.37 R. Brown ex Bentham on line 20.
p.43 W.J. Hooker on line 15.
p.60 FILIPES not FILTPES on line 33.
p.69 SPECIMEN: no locality, between lines 21 & 22.
p.73 BAUERA RUBIODES Andrews on line 2.
p.74 78–79 (not 76) and 1805 (not 1804) on line 1.
p.74 ex, not in, on line 15.
p.75 Perrotett, not Perrier de la Bâthie on line 13.
p.76 (Linnaeus) Lamarck, on line 1.
p.81 (Solander ex Gaertner) Smith, on line 35.
p.84 *J. Arnold Arbor.* on line 4.
p.84 Bailey, not Knuth, on line 33.
p.86 AMMANNIA,not AMMANIA, on line 27.
p.87 AMMANNIA,not AMMANIA, on line 1.
p.97 1862, not 1861, on line 14.
p.108 A5/210– & A5/211– (Andrews) Druce, not (Kennedy) Druce.
p.108 CALENDULACEA, not CALENDULCEA on line 26.
p.109 (Smith) R. Brown on line 16.
p.114 (R. Brown) Kuntze not (Kunze).
p.117 ERVATAMIA not ERYATAMIA on line 36.
p.117 delete *Proc.* on line 37.
p.121 pl.208B [together with 208A] on line 24.
p.121 pl.208A [together with 208B] on line 36.
p.123 ALSINOIDES Linnaeus on line 36.
p.125 insert SOLANACEAE, after line 12.
p.144 ANEMONIFOLIUS, not AMENONEFOLIUS on line 16.
p.158 delete 'in de Candolle' on lines 25 and 26.
p.160 SUPERBAMiquel on line 6.
p.160 PLATYPODA A.Cunningham ex Miquel on line 26.
p.164 R. Brown ex Ker Gawler on line 20.
p.167 Banks and Solander ex Gaertner on line 23.
p.178 A2/80, not A2/30 on line 14 column 1.
p.178 Add Solanaceae A6/259 after line 38, column 2.

TABLE 1

Details of BM(NH) numbering scheme for the catalogue entries of plant drawings engravings, copper plates and specimens derived from the *Endeavour* voyage.

Volume/Catalogue	Additional numbers	Combined numbers	Missing numbers	Totals
Australia A1/1–A8/393	9b, 20b, 74a, 148b, 200b, 200b +, 200c, 207b, 249b, 266b, 268b, 268c, 269b, 271b, 272b, 273b, 289b, 299b, 361b, 369b, 369c			414
Brasil B1–B38		6/7		37
Java J1–J71	27b			72
Madeira M1–M22				22
New Zealand NZ1/1–NZ4/215	25b, 64a, 64b, 64c, 66a, 113b, 115b, 126a, 128a, 142b, 161b, 161c, 182b		34, 52 53	225
Society Islands				
SI1/1–SI1/57	13b			58
SI2/1–SI2/53	7b, 33b, 38a, 49a			57
Tierra del Fuego				
TF1–TF80	24a		12,21	79
				964

TABLE 2

Summary of the collection of drawings and copperplates of plants collected on Captain Cook's first voyage 1768–1771 held in British Museum (Natural History)

	MADEIRA	BRAZIL	TIERRA DEL FUEGO	SOCIETY ISLANDS	NEW ZEALAND	AUSTRALIA	JAVA	TOTAL
Sydney Parkinson Outline Drawings	2	1	1	15	174	409	72	674
Sydney Parkinson Finished Drawings	16	30	77	113	30	3	—	269
John Frederick Miller ,, ,,	—	—	—	1	26	61	11	99
James Miller ,, ,,	—	—	—	—	27	52	6	85
John Cleveley ,, ,,	—	—	—	—	4	20	2	26
Thomas Burgis ,, ,,	1	—	—	—	1	—	1	3
Frederick Polydore Nodder ,,	—	—	—	—	56	199	17	272
Unsigned Finished Drawings	5	7	2	—	61	28	7	110
Finished Drawings Total	22	37	79	114	205	363	44	864
Outline & Finished Drawings Total	24	38	80	129	379	772	116	1538
Copperplates	11	23	65	89	183	337	30	738

THE CATALOGUE

BRAZIL

CACTACEAE

PERESKIA GRANDIFOLIA Haworth, *Suppl. pl. succ.*: 85 (1819).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 122–123 'Clusia dodecapetala'; Solander, D. Slip Catalogue **XXI**: 171–176; Banks, J. Cat. Pl.: 17.

FINISHED DRAWING: watercolours *r* [ink] 'Clusia dodecapetala:' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] 'Mem the stamina to be done with Gamboge the stalks & Calix green' [SP]. 250×340/180; see Beaglehole, J.C. 1962 **I**: pl. 25; Carr, D. J. [Ed.] 1983 pl. 51 p. 56, col. pl.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 17/423. 455×295/220; engraving proof *r* [pencil] 'Clusia dodecapetala' [unknown]; col. engraving 1984 *BF*: pl. 338.

MALPIGHIACEAE

BYRSONIMA species.

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 85 'Malpighia nitida'; Solander, D. Slip Catalogue **XI**: 84c–84d; Banks, J. Cat. Pl.: 13.

FINISHED DRAWING: watercolours *r* [ink] 'Malpigia nitida.' [SP]; 'Sydney Parkinson pinx^{t}. 1769.'. 440×260/295.
Bacstrom, S. Ms.: 76.

STIGMAPHYLLON species.

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 87 'Banisteria emarginata'; Solander, D. Slip Catalogue **XI**: 93–95; Banks, J. Cat. Pl.: 13.

FINISHED DRAWING: watercolours [SP?] *r* [ink] 'Banisteria emarginata.' [HS]; *v* [pencil] '4' [unknown]; [ink] 'Brasi' [JB]. 365×250/205.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 8/200. 460×295/205; engraving proof *r* [pencil] 'Banisteria emarginata' [unknown]; col. engraving 1984 *BF*: pl. 339.

STIGMAPHYLLON AURICULATUM (Cavanilles) Adr. Jussieu in A. Saint-Hilaire, *Fl. Bras. merid.* **3**: 48, t. 171 (1833).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 86 'Banisteria atriplicifolia'; Solander, D. Slip Catalogue **XI**: 87–89; Banks, J. Cat. Pl.: 13.

FINISHED DRAWING: watercolours *r* [ink] 'Banisteria atriplicifolia.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 280×465/240.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 8/199. 295×460/235; engraving proof *r* [pencil] 'Banisteria atriplicifolia' [unknown]; col. engraving 1984 *BF*: pl. 340.

B5 STIGMAPHYLLON CILIATUM (Lamarck) Adr. Jussieu in A. Saint-Hilaire, *Fl. Bras. merid.* **3**: 49 (1833).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 86 'Banisteria ciliata'; Solander, D. Slip Catalogue **XI**: 91–92; Banks, J. Cat. Pl.: 13.

FINISHED DRAWING: watercolours *r* [ink] 'Bannisteria ciliata.' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; [pencil] 'Brazil.' [JB]. 465×280/425.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 7/164. 460×295/420; engraving proof *r* [pencil] 'Banisteria ciliata' [unknown]; col. engraving 1984 *BF*: pl. 341; see Adams, B. 1986 col. pl.

B6/7 TETRAPTERYS PHLOMOIDES (Sprengel) Niedenzu in Engler, *Pflanzenr. IV* **141** (Heft 91): 208 (1928).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 87 'Banisteria fulgens'; Solander, D. Slip Catalogue **XI**: 101–102; Banks, J. Cat. Pl.: 13.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [ink] 'Banisteria fulgens.' [SP]. 280×455/155.

FINISHED DRAWING: watercolours *r* [ink] 'Banisteria fulgens.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 280×465/240; see Cook, J. 1977 pl. 1 col. pl.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 12/298. 295×455/235; engraving proof *r* [pencil] 'Banisteria decora' [unknown]; col. engraving 1984 *BF*: pl. 342.

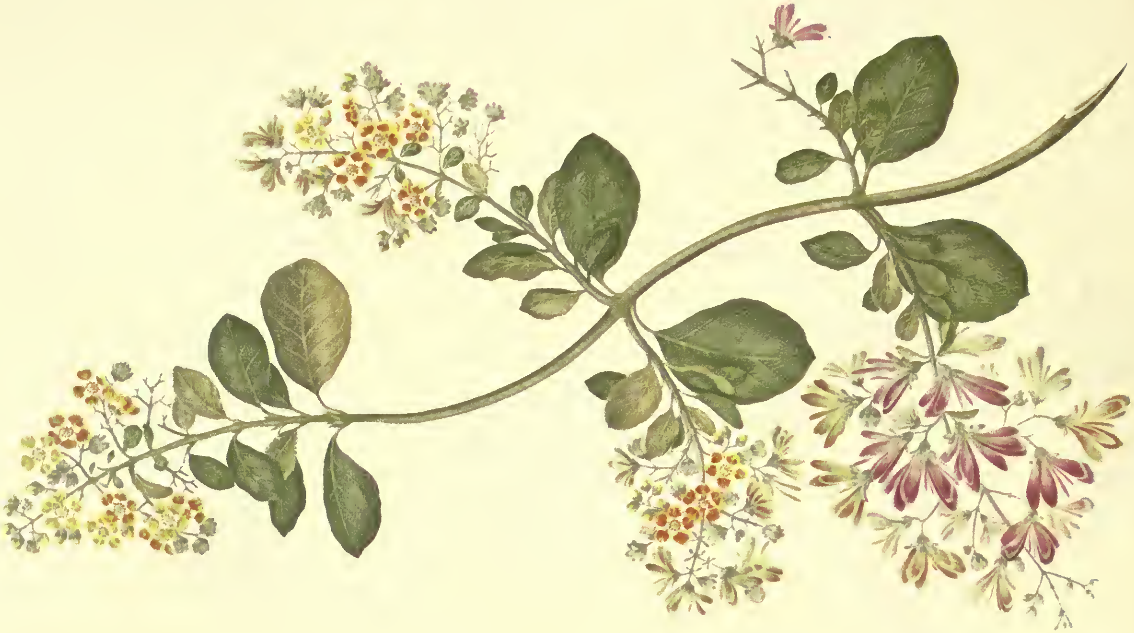
SAPINDACEAE

B8 SERJANIA CUSPIDATA Cambessèdes in A. Saint-Hilaire, *Fl. Bras. merid.* **1**: 356 (1828).

SPECIMEN: Rio de Janeiro.

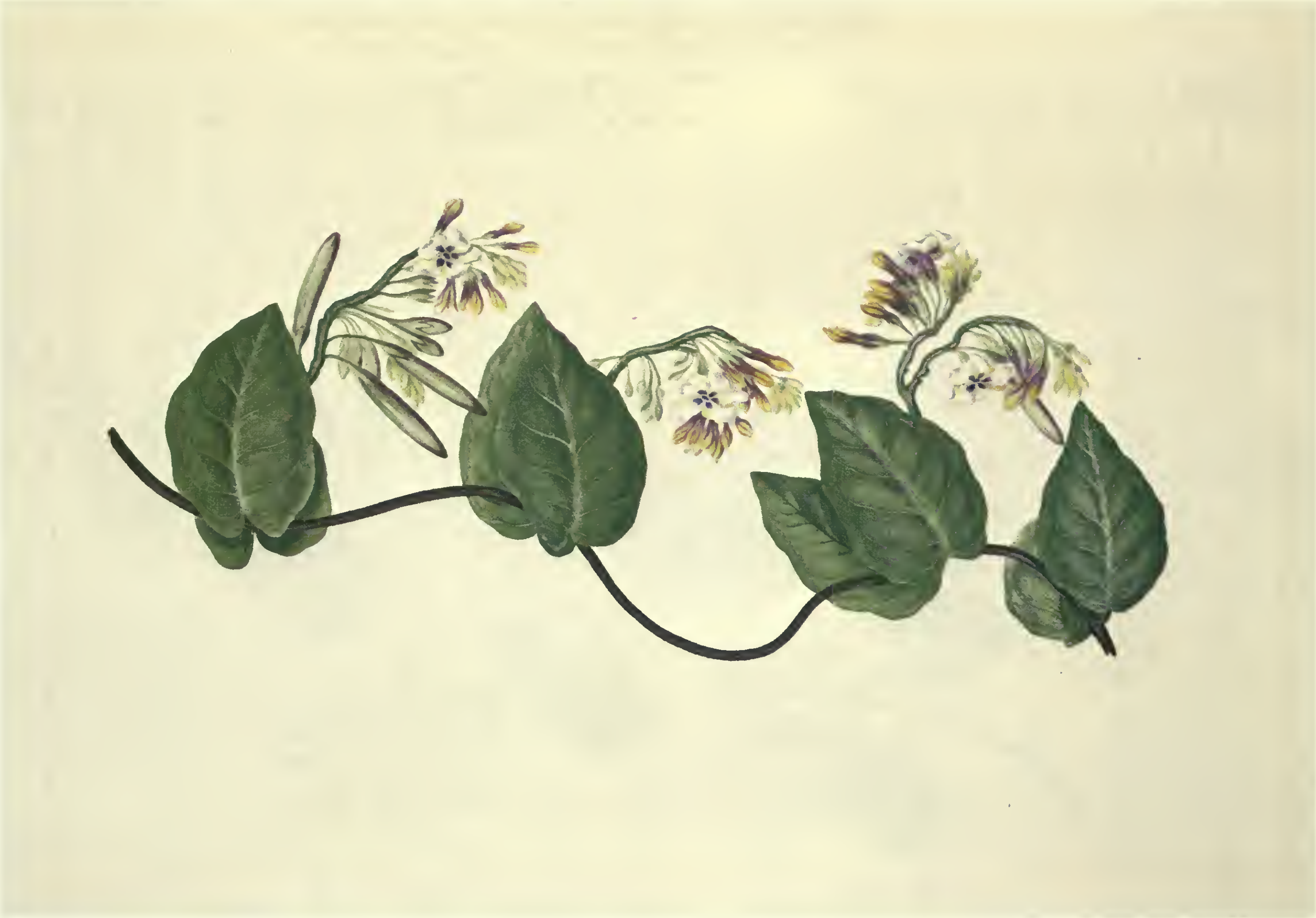
MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 82 'Cardiospermum latifolium'; Solander, D. Slip Catalogue **X**: 131–134; Banks, J. Cat. Pl.: 12; 1973 *CF*: pl. 1 *prodeser*.

FINISHED DRAWING: watercolours *r* [ink] 'Cardiospermum latifolium.' [SP]; 'Sydney Parkinson pinx^{t} 1768.'. 275×440/230; see Carr, D. J. [Ed.] 1983 pl. 53 p. 59, col. pl.



B6/7 *Tetrapterys phlomoides*

[Plate 342 from *Banks' Florilegium*]
gathered Brasil, 13 November–7 December 1768
line engraving by Charles White after Sydney Parkinson (1769)
295 × 455 mm



B/15 *Temnadenia violacea*

[Plate 348 from *Banks' Florilegium*]
gathered Rio de Janeiro, Brazil, 13 November–7 December 1768
line engraving by Charles White after Sydney Parkinson (1769)
295 × 460 mm

Copper plate: [GS]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 7/160. 295×455/230; engraving proof *r* [pencil] 'Paullinia ferruginea' [unknown]; engraving 1973 *CF*: pl. 1; col. engraving 1984 *BF*: pl. 343.

AIZOACEAE

B9 Sesuvium portulacastrum (Linnaeus) Linnaeus, *Syst. nat. ed. 10*, **2**: 1058 (1758).

Specimen: Isle of Raza.

Manuscript: Solander, D. Primit. Fl. Bras.: 91 'Sesuvium portulacastrum'; Solander, D. Slip Catalogue **XI**: 777–778; Banks, J. Cat. Pl.: 14.

Finished drawing: watercolours *r* [ink] 'Sesuvium portulacastrum. Linnè' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; *v* [pencil] 'Mem. the smallest leaves the greenest.' [SP]; '24' [unknown]; '16' [unknown]; [ink] 'Brasi' [JB]. 250×345/190.
Bacstrom, S. Ms.: 86.

MELASTOMATACEAE

B10 Tibouchina clavata (Persoon) Wurdack, *Phytologia* **7**: 233 (1960).

Specimen: Rio de Janeiro.

Manuscript: Solander, D. Primit. Fl. Bras.: 84–85 'Melastoma quadrangularis'; Solander, D. Slip Catalogue **X**: 531–533; Banks, J. Cat. Pl.: 13.

Finished drawing: watercolours *r* [ink] 'Melastoma quadrangularis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/390.
Bacstrom, S. Ms.: 72.

RUBIACEAE

B11 Rudgea eriantha Bentham, *Linnaea* **23**: 458 (1850).

Specimen: 2 sheets, Rio de Janeiro.

Manuscript: Solander, D. Primit. Fl. Bras.: 68 'Ceratites amoena'; Solander, D. Slip Catalogue **VI**: 141–144; Banks, J. Cat. Pl.: 11.

Finished drawing: watercolours *r* [ink] 'Ceratites amoena.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 355×255/305; see Carr, D. J. [Ed.] 1983 pl. 52 p. 58, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/115. 460×295/300; engraving proof *r* [pencil] 'Seratites amoena' [unknown]; col. engraving 1984 *BF*: pl. 344.

B12 Borreria capitata de Candolle, *Prodr.* **4**: 545 (1830).

Specimen: Rio de Janeiro.

Manuscript: Solander, D. Primit. Fl. Bras.: 60 'Spermacoce capitata'; Solander,

D. Slip Catalogue **III**: 731–734; Banks, J. Cat. Pl.: 10.

FINISHED DRAWING: watercolours *r* [ink] 'Spermacoce capitata.' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; 'Brasil' [JB]. 370×255/290.

COPPER PLATE: [D]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/58. 460×295/285; engraving proof *r* [pencil] 'Spermacoce capitata' [unknown]; col. engraving 1984 *BF*: pl. 345.

COMPOSITAE

B13 BARROSOA APICULATA (Gardner) R. King & H. Robinson, *Phytologia* **24**: 184 (1972).

SPECIMEN: Isle of Raza.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 106 'Eupatorium succulentum'; Solander, D. Slip Catalogue **XVI**: 269–271; Banks, J. Cat. Pl.: 15.

FINISHED DRAWING: watercolours *r* [ink] 'Eupatorium succulentum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×280/390.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 7/171. 460×295/380; engraving proof *r* [pencil] 'Eupatorium succulentum' [unknown]; col. engraving 1984 *BF*: pl. 346.

B14 BACCHARIS PINGRAEA de Candolle, *Prodr.* **5**: 420 (1836).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 106 'Chrysocoma albiflora'; Solander, D. Slip Catalogue **XVI**: 297–299; Banks, J. Cat. Pl.: 16.

FINISHED DRAWING: watercolours *r* [ink] 'Chrysocoma albiflora.' [SP]; 'Sydney Parkinson pinx^{t} ad vivum 1768.'; 'Brasil' [JB]. 470×280/390.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 16/384. 460×290/385; engraving proof *r* [pencil] 'Chrysocoma albiflora' [unknown]; col. engraving 1984 *BF*: pl. 347.

APOCYNACEAE

B15 TEMNADENIA VIOLACEA (Vellozo) Miers, *Apocyn. S. Amer.*: 208 (1878).

SPECIMEN: 2 sheets, Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 71–72 'Echites pubescens'; Solander, D. Slip Catalogue **VII**: 131–133; Banks, J. Cat. Pl.: 11.

FINISHED DRAWING: watercolours *r* [ink] 'Echites pubescens.,' [SP]; 'Sydney Parkinson pinx^{t}: 1769.'. 280×470/185; see Carr, D. J. [Ed.] 1983 pl. 54 p. 60, col. pl.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 5/124. 295×460/180; engraving proof *r* [pencil] 'Echites pubescens' [unknown]; 'C^{h} White Engr' [unknown]; col. engraving 1984 *BF*: pl. 348.

ASCLEPIADACEAE

B16 **Marsdenia mollissima** Fournier, *Fl. bras.* **6** (4): 322, t. 95 (1885).

Specimen: 2 sheets, Rio de Janeiro.

Manuscript: Solander, D. Primit. Fl. Bras.: 73–74 'Cynanchum crassifolium'; Solander, D. Slip Catalogue **VII**: 215–218; Banks, J. Cat. Pl.: 11.

Finished drawing: watercolours *r* [ink] 'Cynanchum crassifolium.' [SP]; 'Sydney Parkinson pinx^t 1768.'. 370×250/290.

Copper plate: [DM]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/129. 460×295/290; engraving proof *r* [pencil] 'Cynanchum crassifolium' [unknown]; col. engraving 1984 *BF*: pl. 349.

B17 **Oxypetalum banksii** Schultes in Roemer & Schultes, *Syst. veg.* **6**: 91 (1820).

Specimen: 3 sheets, Rio de Janeiro (holotype).

Manuscript: Solander, D. Primit. Fl. Bras.: 72–73 'Cynanchum suaveolens'; Solander, D. Slip Catalogue **VII**: 211–212; Banks, J. Cat. Pl.: 11.

Finished drawing: watercolours *r* [ink] 'Cynanchum suaveolens.' [SP]; 'Sydney Parkinson pinx^t 1768.'. 275×455/145; see Carr, D. J. [Ed.] 1983 pl. 55 p. 60, col pl.

Copper plate: [D]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/128. 295×455/135; engraving proof *r* [pencil] 'Cynanchum suaveolens' [unknown]; see Stearn, W. T. 1969 *Notes and Records of the Royal Society of London* **24**: pl. 7 fig. 4; col. engraving 1984 *BF*: pl. 350.

B18 **Ditassa banksii** R. Brown, *Mem. Wernerian nat. Hist. Soc.* **1**: 49 (1811).

Specimen: 2 sheets, Rio de Janeiro (holotype).

Manuscript: Solander, D. Primit. Fl. Bras.: 74 'Asclepias suaveolens'; Solander, D. Slip Catalogue **VII**: 287–289; Banks, J. Cat. Pl.: 11.

Finished drawing: watercolours *r* [ink] 'Asclepias suaveolens' [SP]; 'Sydney Parkinson pinx^t 1768.'. 365×255/280.

Copper plate: [D]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/133. 455×295/280; engraving proof *r* [pencil] 'Asclepias suaveolens' [unknown]; see Stearn, W. T. 1969 *Notes and Records of the Royal Society of London* **24**: pl. 7 fig. 3; col. engraving 1984 *BF*: pl. 351.

CONVOLVULACEAE

B19 **Ipomoea cairica** (Linnaeus) Sweet, *Hort. brit. ed. 1*: 287 (1826).

Specimen: 2 sheets, Isle of Raza.

Manuscript: Solander, D. Primit. Fl. Bras.: 63–64 'Convolvulus amoenus'; Solander, D. Slip Catalogue **V**: 203–205; Banks, J. Cat. Pl.: 11; 1973 *CF*: pl. 2.

FINISHED DRAWING: watercolours *r* [ink] 'Convolvulus amoenus.' [SP]; 'Sydney Parkinson pinx^t 1768.'. 275×465/185.

COPPER PLATE: [DM]; Bacstrom, S. Ms.; 30; Brown, R. Ms.: 4/95. 295×460/190; engraving proof *r* [pencil] 'Convolvulus amoenus' [unknown]; engraving 1973 *CF*: pl. 2; col. engraving 1984 *BF*: pl. 352.

BORAGINACEAE

B20 TOURNEFORTIA PANICULATA Chamisso, *Linnaea* **4**: 468 (1829).

SPECIMEN: 2 sheets, Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 62 'Tournefortia scandens'; Solander, D. Slip Catalogue **IV**: 683; [not in Banks, J. Cat. Pl.].

FINISHED DRAWING: watercolours *r* [ink] 'Sydney Parkinson pinx^t 1768'; 'Brasil' [JB]. 370×255/255.
Bacstrom, S. Ms.: 28.

VERBENACEAE

B21 LANTANA MISTA Linnaeus, *Syst. nat. ed. 12*, **2**: 417 (1767).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 98–99 'Lantana mista'; Solander, D. Slip Catalogue **XIII**: 505–508; Banks, J. Cat. Pl.: 14.

FINISHED DRAWING: watercolours *r* [ink] 'Lantana mista.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] 'Mem. the underside of the leaf is much paler and somewhat grey & not so hairy.' [SP]; '17' [unknown]; '95' [unknown]. 360×255/260; see Carr, D. J. [Ed.] 1983 pl. 56 p.61, col. pl.
Bacstrom, S. Ms.: 96.

EUPHORBIACEAE

B22 ALCHORNEA TRIPLINERVIA J. Mueller in de Candolle, *Prodr.* **15** (2): 909 (1866).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 119 'Alchornea rigida'; Solander, D. Slip Catalogue **XX**: 501–504; Banks, J. Cat. Pl.: 17.

FINISHED DRAWING: watercolours *r* [ink] 'Alchornia rigida.' [SP]; 'Sydney Parkinson pinx^t 1769.'; [pencil] '8 stamina' [SP]; '8' [SP]. 470×280/380.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 14/340. 455×295/375; engraving proof *r* [pencil] 'Alchornia rigida' [unknown]; col. engraving 1984 *BF*: pl. 353.

B23 **Croton compressus** Lamarck, *Encycl.* **2**: 208 (1786).

Specimen: ✱.

Manuscript: Solander, D. Primit. Fl. Bras.: 116–117 'Croton reticulatum'; Solander, D. Slip Catalogue **XIX**: 579–582; Banks, J. Cat. Pl.: 17.

Finished drawing: watercolours *r* [ink] 'Croton reticulatum.' [SP]; 'Sydney Parkinson pinx^t.' [pencil] 'Brasil' [JB]. 365×255/300.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 18/439. 460×295/300; engraving proof *r* [pencil] 'Croton reticulatum' [unknown]; col. engraving 1984 *BF*: pl. 354.

NYCTAGINACEAE

B24 **Bougainvillea spectabilis** Willdenow, *Sp. pl. ed. 4*, **2**: 348 (1799),

Specimen: ✱.

Manuscript: Solander, D. Primit. Fl. Bras.: 80 'Calyxis ternaria'; Solander, D. Slip Catalogue **IX**: 513–516; Banks, J. Cat. Pl.: 12.

Finished drawing: watercolours *r* [ink] 'Calyxis ternaria.' [SP]; 'Sydney Parkinson pinx^t 1768.'; 'Brasil' [JB]. 470×280/365; see Beaglehole, J. C. 1962 **I**: pl. II col. pl.; Carr, D. J. [Ed.] 1983 pl. 57 p. 62, col. pl.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 62; Brown, R. Ms.: 10/236. 460×295/360; engraving proof *r* [pencil] 'Calyxis ternaria' [unknown]; col. engraving 1984 *BF*: pl. 355; see Adams, B. 1986 col. pl.

ORCHIDACEAE

B25 **Epidendrum elongatum** Jacquin, *Collectanea* **3**: 260 (1790).

Specimen: no locality, (unmounted duplicate – Rio de Janeiro).

Manuscript: Solander, D. Primit. Fl. Bras.: 111 'Epidendrum secundum'; Solander, D. Slip Catalogue **XVIII**: 415–418; Banks, J. Cat. Pl.: 16.

Finished drawing: watercolours *r* [ink] 'Epidendrum secundum.' [SP]; 'Sydney Parkinson pinx^t 1768'. 465×275/380.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 15/359. 460×295/375; engraving proof *r* [pencil] 'Epidendrum secundum' [unknown]; col. engraving 1984 *BF*: pl. 356.

B26 **Rodriguezia rigida** (Lindley) Reichenbach f., *Bot. Ztg* **10**: 771 (1852).

Specimen: 2 sheets, Rio de Janeiro.

Manuscript: Solander, D. Primit. Fl. Bras.: 111–112 'Epidendrum corniculatum'; Solander, D. Slip Catalogue **XVIII**: 391–395; Banks, J. Cat. Pl.: 16; 1973 *CF*: pl. 3.

Finished drawing: watercolours *r* [ink] 'Epidendrum corniculatum.' [SP];

'Sydney Parkinson pinx^{t} 1768.'. 460×275/395; see Carr, D. J. [Ed.] 1983 pl. 58 p. 63, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 15/360. 460×295/395; engraving proof *r* [pencil] 'Epidendrum corniculatum' [unknown]; engraving 1973 *CF*: pl. 3; col. engraving 1984 *BF*: pl. 357.

B27 **CATTLEYA FORBESII** Lindley, *Coll. Bot.*: t. 37 (1821); *Bot. Reg.* **11**: 953, t. 953 (1826).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 112–113 'Epidendrum bifolium'; Solander, D. Slip Catalogue **XVIII**: 375–382; Banks, J. Cat. Pl.: 16.

FINISHED DRAWING: watercolours *r* [ink] 'Epidendrum bifolium.' [SP]; 'Sydney Parkinson pinx^{t}. 1768.'. 465×280/385.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 15/358. 455×295/380; engraving proof *r* [pencil] 'Epidendrum bifolium' [unknown]; col. engraving 1984 *BF*: pl. 358.

ALSTROEMERIACEAE

B28 **ALSTROEMERIA PULCHELLA** Linnaeus f., *Suppl. pl.*: 206 (1781).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 77–78 'Alstroemeria pulchella'; Solander, D. Slip Catalogue **IX**: 23–25; Banks, J. Cat. Pl.: 12.

FINISHED DRAWING: watercolours *r* [ink] 'Alstroemeria pulchella.' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; 'Brasil' [JB]. 365×250/270.
Bacstrom, S. Ms.: 50.

B29 **BOMAREA EDULIS** Herbert, *Amaryllidaceae*: 111 (1837).

SPECIMEN: 2 sheets, Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 78–79 'Alstroemeria salsilla'; Solander, D. Slip Catalogue **IX**: 33–39; Banks, J. Cat. Pl.: 12.

FINISHED DRAWING: watercolours *r* [ink] 'Alstroemeria salsilla. Linn.' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; [pencil] 'right' [SP[?]]. 465×270/380; see Carr, D. J. [Ed.] 1983 pl. 60 p.64, col. pl.

COPPER PLATE: [D]; Basctrom, S. Ms.: 50; Brown, R. Ms.: 9/202. 455×290/375; engraving proof *r* [pencil] 'Alstroemeria salsilla' [unknown]; col. engraving 1984 *BF*: pl. 359.

BROMELIACEAE

B30 **AECHMEA SPHAEROCEPHALA** Baker, *J. Bot., Lond.* **17**: 162 (1879).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 75–76 'Bromelia Pseudo ananas';

Solander, D. Slip Catalogue **VIII**: 205–207; [not in Banks, J. Cat. Pl.].

Finished drawing: watercolours [SP[?]] *r* [ink] 'Bromelia Pseudo Ananas.' [HS]; 'Brasil' [JB]. 370×255/345.
Bacstrom, S. Ms.: 48.

B31 **Aechmea nudicaulis** (Linnaeus) Grisebach, *Fl. Brit. W.I.*: 593 (1864).

Specimen: 2 sheets, Rio de Janeiro.

Manuscript: Solander, D. Primit. Fl. Bras.: 76 'Bromelia bracteata'; Solander, D. Slip Catalogue **VIII**: 213–215; Banks, J. Cat. Pl.: 12.

Finished drawing: watercolours *r* [ink] 'Bromelia bracteata.' [SP]; 'Sydney Parkinson pinx^{t} 1768.'. 465×280/405; see Carr, D. J. [Ed.] 1983 pl. 59 p. 64, col. pl.; Adams, B. 1986 p. 32 col. pl.
Bacstrom, S. Ms.: 48.

B32 **Tillandsia geminiflora** Brogniart in Duperry, *Voy. monde*, Bot. **2**: 186 (1834).

Specimen: Rio de Janeiro.

Manuscript: Solander, D. Primit. Fl. Bras.: 76–77 'Tillandsia argentea'; Solander, D. Slip Catalogue **VIII**: 241–244; Banks, J. Cat. Pl.: 12.

Finished drawing: watercolours *r* [ink] 'Tillandsia argentea.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 460×275/305.
Bacstrom, S. Ms.: 48.

B33 **Tillandsia stricta** Solander ex Sims, *Curtis's bot. Mag.* **37**: t. 1529 (1813).

Specimen: 2 sheets, Rio de Janeiro (holotype).

Manuscript: Solander, D. Primit. Fl. Bras.: 77 'Tillandsia stricta'; Solander, D. Slip Catalogue **VIII**: 247–250; Banks, J. Cat. Pl.: 12.

Finished drawing: watercolours *r* [ink] 'Tillandsia stricta' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×250/280; see Beaglehole, J. C. 1962 **I**: pl. 26.

Copper plate: [DM]; Bacstrom, S. Ms.: 48; Brown, R. Ms.: 10/235. 460×295/275; engraving proof *r* [pencil] 'Tillandsia stricta' [unknown]; col. engraving 1984 *BF*: pl. 360.

DENNSTAEDTIACEAE

B34 **Pteridium aquilinum** (Linnaeus) Kuhn in Decken, *Reis. Öst.–Af.* **3** (3): 11 (1879).

Specimen: *.

Manuscript: Solander, D. Primit. Fl. Bras.: 125 'Pteris ciliata'; Solander, D. Slip Catalogue **XXII**: 272–273; Banks, J. Cat. Pl.: 18.

FINISHED DRAWING: watercolours [SP] *r* [ink] 'Pteris ciliata' [SP[?]]; *v* 'Brasil' [JB]. 465×275/435.
Bacstrom, S. Ms.: 144.

PTERIDACEAE

B35 PTERIS DENTICULATA Swartz, *Prodr.*: 129 (1788).

SPECIMEN: Isle of Raza.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 125 'Pteris dichotoma'; Solander, D. Slip Catalogue; **XXII**: 280; Banks, J. Cat. Pl.: 18.

FINISHED DRAWING: watercolours [SP] *r* [ink] 'Pteris dichotoma' [SP]; *v* 'Brasil' [JB]. 355×250/315.
Bacstrom, S. Ms.: 144.

ASPLENIACEAE

B36 ANTIGRAMMA REPANDA (C. Presl) C. Presl, *Tent. pterid.*: 120, t. 4, f. 9 & 10 (1836).

SPECIMEN: Rio de Janeiro.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 125–126 'Asplenium glabratum'; Solander, D. Slip Catalogue **XXII**: 241; Banks, J. Cat. Pl.: 18.

FINISHED DRAWING: watercolours [SP] *v* [pencil] 'Asplenium glabratu' [unknown]; [ink] 'Rio de Janeiro.' [JB]. 370×265/335.
Bacstrom, S. Ms.: 144.

THELYPTERIDACEAE

B37 MENISCIUM RETICULATUM Swartz, *Syn. fil.*: 19 (1806).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 126–127 'Polypodium reticulatum'; Solander, D. Slip Catalogue **XXII**: 91–92; Banks, J. Cat. Pl.: 18.

FINISHED DRAWING: watercolours [SP] *v* [pencil] 'No.38 Polypodium reticulatum' [unknown]; '[[3]] 4' [unknown]; [ink] 'Rio de Janeiro' [JB]. 370×250/320.
Bacstrom, S. Ms.: 144.

SCHIZAEACEAE

B38 LYGODIUM VOLUBILE Swartz, *Syn. fil.*: 152 (1806).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Bras.: 125 'Ophioglossum scandens'; [not in Solander, D. Slip Catalogue]; Banks, J. Cat. Pl.: 18.

FINISHED DRAWING: watercolours [SP[?]] *r* [ink] ‘Ophioglossum scandens’ [HS]; ‘a’ [JB[?]]; *v* ‘Brasil a leaf of the natural size’ [JB]. 370×270/320. Bacstrom, S. Ms.: 142.

JAVA

DILLENIACEAE

J1 **Tetracera indica** (C. Christmann & Panzer) Merrill, *Interpr. Herb. amboin.*: 367 (1917).

Specimen: *.

Manuscript: Solander, D. Pl. Java.: 139–140 'Tetracera oblongata'; Solander, D. Slip Catalogue **XII**: 539.

Outline drawing: pencil outlines with colour references [SP]. 465×345/390.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}'. 525×355/410.

Copper plate: [GS, '1782']; Bacstrom, S. Ms.: 90; Brown, R. Ms.: 29/716 [?]. 460×300/420; engraving proof *r* [pencil] 'Tricera philadelphioides' [unknown]; 'G Sibelius' [unknown]; col. engraving 1985 *BF*: pl. 361.

J2 **Tetracera scandens** (Linnaeus) Merrill, *Interpr. Herb. amboin.*: 365 (1917).

Specimen: Princes Island.

Manuscript: Solander, D. Pl. Java.: 106–108 'Tetracera delima'; Solander, D. Slip Catalogue **XII**: 541.

Outline drawing: pencil outlines with colour references [SP]. 520×350/435. Bacstrom, S. Ms.: 90.

ANNONACEAE

J3 **Cananga odorata** Hooker f. & Thomson, *Fl. ind.*: 130 (1855).

Specimen: *.

Manuscript: Solander, D. Pl. Java.: 170 'Uvaria cananga'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers when old yellow w^{t} a cast of green & more or less green according to their age the young ones being somewhat glaucus, the stalks dirty green shaded w^{t} dirty brown' [SP]. 520×345/315.
Bacstrom, S. Ms.: 90.

J4 **Uvaria littoralis** (Blume) Blume, *Fl. Javae*: 26, t. 7 (1828).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 99–100 'Anona rubriflora'; [not in Solander, D. Slip. Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Obs. Uvaria Zeylanica secundum descriptionem florae Zeylanicae et figuram Rumphii sed figuram & descriptionem Rhedii in Horto malabaricaminime cenveniunt' [SP[?]]. 525×355/460.

FINISHED DRAWING: watercolours *r* [ink] 'Fred.^{k} Polydore Nodder Pinx^{t}. 1782'. 505×340/455; see Carr, D. J. [Ed.] 1983 pl. 172 p. 180, col. pl.
Bacstrom, S. Ms.: 90.

MENISPERMACEAE

J5 COCCOLUS TRILOBUS (Thunberg) de Candolle, *Syst. nat.* **1**: 522 (1817).

SPECIMEN: 2 sheets, no locality.

MANUSCRIPT: Solander, D. Pl. Java. Index: 49 [index entry only, no description] 'Menispermum caeruleuum'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×345/425.
Bacstrom, S. Ms.: 134.

GUTTIFERAE

J6 CALOPHYLLUM SOULATTRI Burman f., *Fl. indica*: 121 (1768).

SPECIMEN: 2 sheets, no locality.

MANUSCRIPT: Solander, D. Pl. Java.: 33–34 'Calophyllum Soulattri'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×345/415.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. 1782'. 510×340/405.

COPPER PLATE: [GS, '1782']; Bacstrom, S. Ms.: 90; Brown, R. Ms.: 29/715. 460×295/405; engraving proof *r* [pencil] 'G^{d}. Sibelius' [unknown]; col. engraving 1985 *BF*: pl. 362.

J7 MAMMEA ODORATA (Raffinesque-Schmaltz) Kostermans, *Djawatan Kehutanan Indonesia* (*Bogor*): 13 (1956).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Java.: 100–101 'Calophyllum umbellatum'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×350/410.
Bacstrom, S. Ms.: 90.

STERCULIACEAE

J8 KLEINHOVIA HOSPITA Linnaeus, *Sp. pl. ed. 2*, **2**: 1365 (1763).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Java.: 132–134, 136–137 'Kleinhovia hospita'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'yellow' 'Pale crimson' [SP]. 520×345/490.
Bacstrom, S. Ms.: 124.

MALPIGHIACEAE

J9 Tristellateia australasiae A. Richard, *Voy. Astrolabe, Botanique* (2): 159, t. 15 (1834).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 94–96 'Bannisteria stellata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers bright yellow anthera when old deep red when young yellow Stalks and seed Capsula pale green, the leaves bright grass green w^{t} hollow veins, below somewhat paler.' [SP]. 525×345/415.

Finished drawing: watercolours. 520×345/415; see Carr, D. J. [Ed.] 1983 pl. 173 p. 181, col. pl.
Bacstrom, S. Ms.: 76.

AVERRHOACEAE

J10 Averrhoa carambola Linnaeus, *Sp. pl.* **1**: 428 (1753).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 37–38 'Averrhoa paniculata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]. 525×345/435.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1783'. 505×340/435.
Bacstrom, S. Ms.: 76.

RUTACEAE

J11 Murraya paniculata (Linnaeus) Jack, *Malayan Miscellenies* **1**: 31 (1820).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 29–30 'Chalcas paniculata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Murraea exotica' [unknown]; '16' [unknown]; [ink] 'Batavia' [JB]. 365×265/285.
Bacstrom, S. Ms.: 70.

MELIACEAE

J12 SANDORICUM KOETJAPE (Burman f.) Merrill, *Philipp. J. Sci.* (Bot.) **7**: 237 (1912).

SPECIMEN: Batavia.

MANUSCRIPT: Solander, D. Pl. Java.: 38–39 'Trichilia trifolia'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×345/340.
Bacstrom, S. Ms.: 70.

CELASTRACEAE

J13 REISSANTIA INDICA (Willdenow) Hallé, *Bull. Mus. natn. Hist. nat. Paris*, sér. 2, **30**: 466 (1958).

SPECIMEN: Princes Island.

MANUSCRIPT: Solander, D. Pl. Java.: 130–131 'Hyppocratea arborea'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines [SP]. 520×345/390.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1773'. 520×345/385.

COPPER PLATE: [JL]; Bacstrom, S. Ms.: 12; Brown, R. Ms.: 2/48. 455×295/385; engraving proof *r* [pencil] 'Hippocratea arborea' [unknown]; col. engraving 1985 *BF*: pl. 363.

OLACACEAE

J14 XIMENIA AMERICANA Linnaeus, *Sp. pl.* **2**: 1193 (1753).

SPECIMEN: Princes Island.

MANUSCRIPT: Solander, D. Pl. Java.: 21–23 'Ximenia americana'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the stalk a grey brown the flowers more on the buff colour' [SP]; '43' [unknown]; 'Ximenia americana' [unknown]; [ink] 'Batavia' [JB]. 525×345/370.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt 1775'. 520×345/400.
Bacstrom, S. Ms.: 60.

LEEACEAE

J15 LEEA RUBRA Blume, *Bijdr.*: 197 (1825).

SPECIMEN: Batavia.

MANUSCRIPT: Solander, D. Pl. Java.: 157–158 'Aquilicia sambucina'; Solander,

D. Slip Catalogue VI: 701–703.

OUTLINE DRAWING: pencil outlines with colour references [SP]. 520×345/465.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinx^t: 1774'. 525×345/455; see Carr, D. J. [Ed.] 1983 pl. 174 p. 183.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 13/307. 470×300/455; [no engraving proof]; col. engraving 1985 *BF*: pl. 364.

VITACEAE

J16 AMPELOCISSUS ARACHNOIDEA (Hasskarl) Planchon in A. de Candolle, *Monogr. phan.* **5**: 375 (1887).

SPECIMEN: Batavia.

MANUSCRIPT: Solander, D. Pl. Java.: 97–98 'Vitis tricuspidata'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×350/455.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt'. 515×350/465; see Adams, B. 1986 p. 111 col. pl.
Bacstrom, S. Ms.: 36.

J17 CAYRATIA TRIFOLIA (Linnaeus) Domin, *Biblthca bot.* **89**: 924 (1927).

SPECIMEN: Batavia, Straits of Sunda.

MANUSCRIPT: Solander, D. Pl. Java.: 174–175 'Vitis trifolia'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flower white stile dark red calyx & buds bright green.' [SP]; '2' [unknown]; 'Vitis trifolia' [unknown]; [ink] 'Batavia' [JB]. 265×350/175.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t: 1774.'. 350×505/200.
Bacstrom, S. Ms.: 36.

SAPINDACEAE

J18 ALLOPHYLLUS COBBE (Linnaeus) Raüschel, *Nomencl. bot.*: 108 (1797).

SPECIMEN: 2 sheets, Batavia.

MANUSCRIPT: Solander, D. Pl. Java.: 88–91 'Schmidelia racemosa'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×350/335.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t: 1775'. 525×350/355.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 62; Brown, R. Ms.: 10/238. 460×300/350; engraving proof *r* [pencil] 'Schmiedelia racemosa' [unknown]; col. engraving 1985 *BF*: pl. 365.

LEGUMINOSAE

J19 **VIGNA UNGUICULATA** (Linnaeus) Walpers subsp. CYLINDRICA (Linnaeus) van Eseltine in Hedrick, *Vegetables of New York* **1** (2): 11 (1931).

SPECIMEN: Straits of Sunda.

MANUSCRIPT: Solander, D. Pl. Java.: 170 'Dolichos sinensis'; Solander, D. Slip Catalogue **xv**: 215–216.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Dolichos chinensis' [unknown]. 520×350/420.
Bacstrom, S. Ms.: 106.

J20 **CASSIA OCCIDENTALIS** Linnaeus, *Sp. pl.* **1**: 377 (1753).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Java. Index: 21 [index entry only, no description] 'Cassia stricta'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'gold colour' [SP]. 525×350/350.
Bacstrom, S. Ms.: 70.

J21 **PELTOPHORUM PTEROCARPUM** (de Candolle) Backer ex K. Heyne, *Nutt. pl. Ned.-Ind. ed. 2*, **2**: 755 (1927).

SPECIMEN: 2 sheets, 1 – South of Anger Point.

MANUSCRIPT: Solander, D. Pl. Java.: 9–11 'Caesalpinia hirta'; [not in Solander, D. Slip Catalogue]; 1973 *CF*: pl. 28 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '01' 'hairy' '14' [SP]. 525×350/430.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}: [?]'. 525×350/430; see Carr, D. J. [Ed.] 1983 pl. 175 p. 184, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 26/626. 460×295/440; engraving proof *r* [pencil] 'Ca'salpinia hirta' [unknown]; engraving 1973 *CF*: pl. 28; col. engraving 1985 *BF*: pl. 365.

J22 **DERRIS TRIFOLIATA** Loureiro, *Fl. Cochinch.* **2**: 433 (1790).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Java.: 45–47 'Nissolioides monosperma'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×350/340.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}: [?]'. 525×350/455; see Carr, D. J. [Ed.] 1983 pl. 176 p. 185.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 110; Brown, R. Ms.: 21/525. 450×295/445; engraving proof *r* [pencil] 'Nissolioides monosperma' [unknown]; 'G. Sibelius engr.' [unknown]; col. engraving 1985 *BF*: pl. 367.

J23 **ACACIA NILOTICA** (Linnaeus) Willdenow ex Delile, *Fl. aegypt. illustr.*: 79 (1813) with pods of **SOPHORA TOMENTOSA** Linnaeus, *Sp. pl.* **1**: 373 (1753).

SPECIMEN: 2 sheets, no locality.

MANUSCRIPT: Solander, D. Pl. Java Index: 51 [index entry only, no description] 'Mimosa catenata'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×350/420.

FINISHED DRAWING: watercolours *r* [ink] 'Fred.^{k} Polydore Nodder. Pinx^{t}: 1783'. 505×340/450.
Bacstrom, S. Ms.: 140.

NOTES: both outline and finished drawings are composite with a mixture of the flowers, stems and leaves of *Acacia nilotica* and pods of *Sophora tomentosa*.

MYRTACEAE

J24 **SYZYGIUM CUMINI** (Linnaeus) Skeels, *Bull. Bur. Pl. Ind. U.S. Dep. Agric.* **248**: 25 (1912).

SPECIMEN: Batavia.

MANUSCRIPT: Solander, D. Pl. Java.: 169 'Jambolifera pedunculata'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '26' [unknown]; 'Jambolifera peduncul' [unknown]. 525×350/405.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1775.'. 525×350/440.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 11/270. 460×295/435; engraving proof *r* [pencil] 'Jambolifera pedunculata' [unknown]; col. engraving 1985 *BF*: pl. 368.

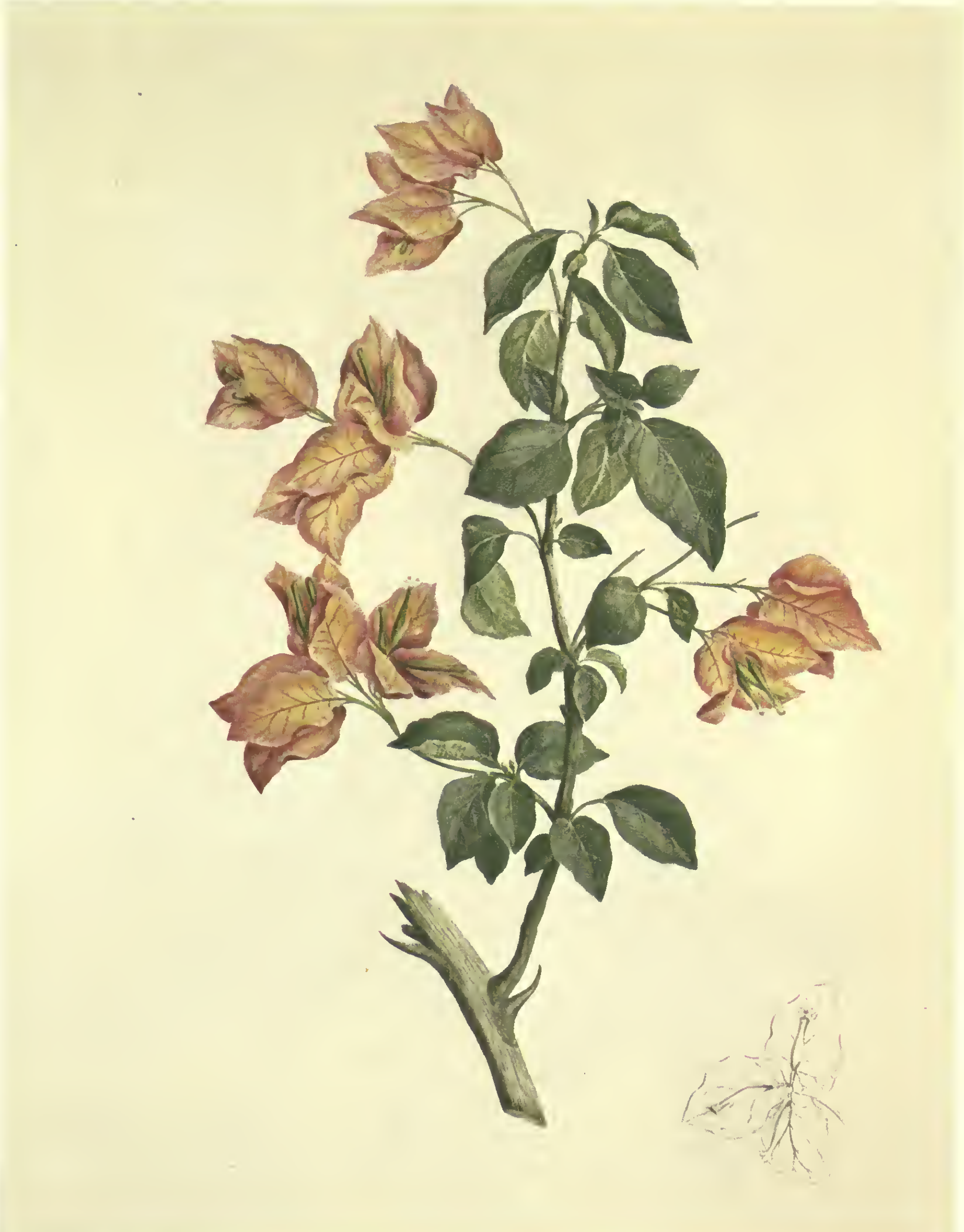
J25 **SYZYGIUM AQUEAM** (Burman f.) Alston, *Ann. R. bot. Gdns Peradeniya* **11**: 204 (1929).

SPECIMEN: 2 sheets, Batavia.

MANUSCRIPT: Solander, D. Pl. Java. Index: 25 [index entry only, no description] 'Eugenia aquea'; [not in Solander, D. Slip Catalogue].

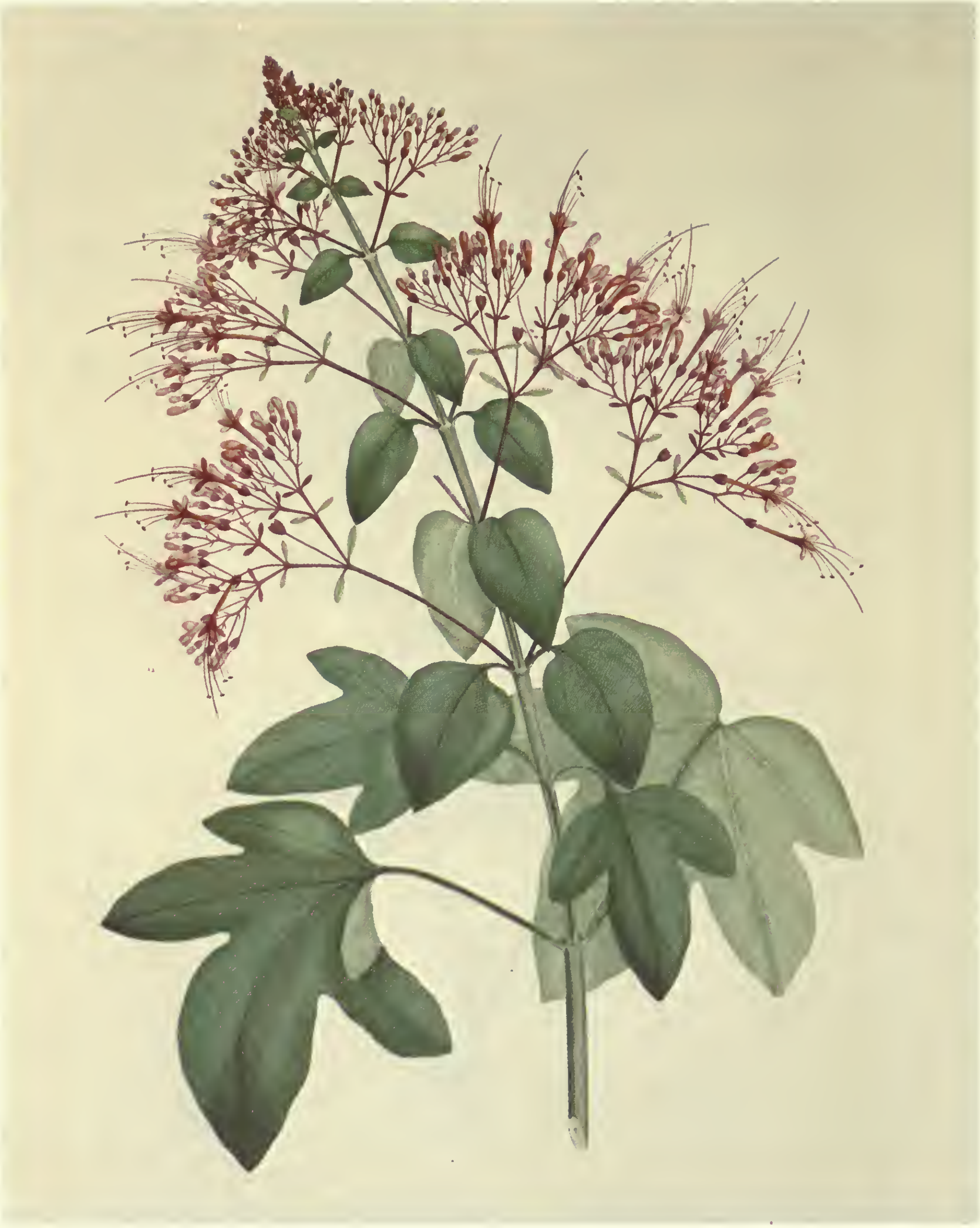
OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The stalk when old brown' [SP]; '56' [unknown]; 'Eugenia aquea' [unknown]. 525×350/425.

FINISHED DRAWING: watercolours *r* 'Fred^{k} Polydore Nodder [?]'. 520×345/470; see Beaglehole, J. C. 1962 **2**: pl. 39.
Bacstrom, S. Ms.: 86.



B24 *Bougainvillea spectabilis*

[Plate 355 from *Banks' Florilegium*]
gathered Brazil, 13 November–7 December, 1768
line engraving by Gabriel Smith after Sydney Parkinson (1768)
460 × 295 mm



J47 *Clerodendrum paniculatum*

[Plate 380 from ***Banks' Florilegium***]
gathered Batavia, Java, 11 October–24 December 1770
line engraving by Daniel MacKenzie after Sydney Parkinson (1770) and
Fredrick Polydore Nodder 1782
460 × 300 mm

ONAGRACEAE

J26 **Ludwigia adscendens** (Linnaeus) H. Hara, *J. Jap. Bot.* **28**: 291 (1953).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 56–57 'Jussiaea adscendens'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The swimmers white' [SP]; '47' [unknown]; '9' [unknown]; 'Jussea adscendens' [unknown]; [ink] 'Batavia' [JB]. 270×365/185.
Bacstrom, S. Ms.: 72.

CURCURBITACEAE

J27a **Coccinia grandis** (Linnaeus) Voigt, *Hort. Suburb. Calc.*: 59 (1845).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java. Index: 46 [index entry only, no description] 'Bryonia grandis'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Brionia grandis' [SP]. 520×350/460.
Bacstrom, S. Ms.: 130.

J27b **Gymnopetalum cochinchinense** (Loureiro) Kurtz, *J. Asiat. Soc. Beng.* **40** (2): 57 (1871).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java. Index: 46 [index entry only, no description] 'Bryonia spicata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The fruit when ripe the colour of minium' [SP]; '57' [unknown]; 'Brionia spicata' [unknown]. 520×350/415.
Bacstrom, S. Ms.: 130.

RUBIACEAE

J28 **Hedyotis herbacea** Linnaeus, *Sp. pl.* **1**: 102 (1753).

Specimen: *.

Manuscript: Solander, D. Pl. Java.: 169 'Houstonia linifolia'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The stalks & leaves grass green capsula somewhat – paler flowers white' [SP]; '5.' [unknown]; 'Houstonia linifolia' [unknown]; [ink] 'Batavia' [JB]. 365×265/235.

Finished drawing: watercolours *v* [pencil] 'Houstonioides linifolia' 'Houstonia linifolia' [unknown]. 525×350/235.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 26; Brown, R. Ms.: 8/190. 460×295/230; engraving proof *r* [pencil] 'Houstonioides linifolia' [unknown]; col. engraving 1985 *BF*: pl. 369.

J29 **DENTELLA REPENS** (Linnaeus) Forster, *Char. gen. pl.*: 26, t. 13 (1755).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Java.: 68–70 'Rondeletioides humifusa'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Flowers white leaves & stalks fresh green' [SP]; '6.' [unknown]; 'Rondeletioides humifusa' [unknown]; [ink] 'Batavia' [JB]. 370×270/105.

FINISHED DRAWING: watercolours *r* [ink] 'Jn^{o}: Cleveley Jun^{r} Pinct. 1774.'; *v* [pencil] 'Rondeletoides humifusa' [unknown]. 520×350/115.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 13/313. 460×295/110; engraving proof *r* [pencil] 'Rondeletioides humifusa' [unknown]; col. engraving 1985 *BF*: pl. 370.

AIZOACEAE

J30 **MOLLUGO PENTAPHYLLA** Linnaeus, *Sp. pl.* **1**: 89 (1753).

SPECIMEN: Princes Island.

MANUSCRIPT: Solander, D. Pl. Java.: 110 'Pharnaceum cerviana'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The whole plant fresh grass green the bud-ting'd w^{t} red.' [SP]; '4' [unknown]; 'Pharnaceum Cerviana' [unknown]; [ink] 'Princes Island' [JB]. 370×265/305.
Bacstrom, S. Ms.: 42.

URTICACEAE

J31 **POIKILOSPERMUM SUAVEOLENS** (Blume) Merrill, *Contr. Arnold Arbor.* **8**: 47 (1934).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Java.: 91–92, 138–139 'Naucleoides alternifolia'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers lilac colour' [SP]; '32' [unknown]; 'Naucleoides alternifolia' [unknown]. 525×350/360.
Bacstrom, S. Ms.: 136.

COMPOSITAE

J32 Eclipta prostrata (Linnaeus) Linnaeus, *Mant. pl.* **2**: 286 (1771).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java. Index: 39 [index entry only, no description] 'Eclipta prostrata'; Solander, D. Slip Catalogue **xvii**: 569–574.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '7' [unknown]; 'Eclipta prostrata' [unknown]; [ink] 'Batavia' [JB]. 370×260/295.
Bacstrom, S. Ms.: 116.

APOCYNACEAE

J33 Carissa carandas Linnaeus, *Syst. nat. ed. 13*, **2**: 185 (1767); *Mant. pl.* **1**: 52 (1767).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 173 'Carissa charandas'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]. 525×350/365.

Finished drawing: watercolours *v* [pencil] '39' [unknown]; 'Carissa cerandas' [unknown]. 525×350/390.
Bacstrom, S. Ms.: 36.

J34 Cerbera manghas Linnaeus, *Sp. pl.* **1**: 208 (1753).

Specimen: 2 sheets, 1 – Batavia, 2 – Princes Island.

Manuscript: Solander, D. Pl. Java.: 115–118 'Cerbera oculata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white' [SP]; '30' [unknown]; 'Cerbera oculata' [unknown]. 525×350/485.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1774'. 520×350/470; see Carr, D. J. [Ed.] 1983 pl. 177 p. 186.

Copper plate: [CW]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 9/206. 460×295/455; engraving proof *r* [pencil] 'Cerbera oculata' [unknown]; col. engraving 1985 *BF*: pl. 371; see Adams, B. 1986 col. pl.

ASCLEPIADACEAE

J35 Sarcolobus globosus Wallich, *Asiat. Reschs* **12**: 568, t. 4 (1816) subsp. globosus.

Specimen: 2 sheets, Princes Island (holotype).

Manuscript: Solander, D. Pl. Java.: 134–136 'Cynanchoides drupacea'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'concave' [SP]; *v* '34' [unknown]; 'Cynanchoides drupacea' [unknown]. 520×350/430.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinxt 1774.'. 520×345/400; see Beaglehole, J. C. 1962 **2**: pl. 38; Stearn, W. T. 1969 *Notes and Records of the Royal Society of London* **24**: pl. 6 fig. 2, col. pl. 85.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 46; Brown, R. Ms.: 11/258. 460×300/400; engraving proof *r* [pencil] 'G. Smith engr.' [unknown]; 'Cynanchoides drupacea' [unknown]; col. engraving 1985 *BF*: pl. 372.

J36 **HOYA cf. DIVERSIFOLIA** Blume, *Bijdr.*: 1064 (1827).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Java.: 137–138 'Asclepias punctata'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The stalks ash colour peduncli white, full of red spots.' [SP]; 'Pedicelli reddish Corolla on the outside' [unknown]; '10' [unknown]; 'Asclepias punctata' [unknown]. 525×345/465.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1774.'. 525×350/470; see Carr, D. J. 1983 [Ed]. pl. 178 p. 187.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 9/216. 460×295/440; engraving proof *r* [pencil] 'Asclepias punctata' [unknown]; col. engraving 1985 *BF*: pl. 373.

CONVOLVULACEAE

J37 **MERREMIA GEMELLA** (Burman f.) Hallier f., *Bot. Jb.* **16**: 552 (1893).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Java.: 26–28 'Convolvulus flavus'; [not in Solander, D. Slip catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×350/420.

FINISHED DRAWING: watercolours *v* [pencil] 'Convolvulus flavus' [unknown]. 520×350/435; see Carr, D. J. [Ed]. 1983 pl. 179 p. 188.

COPPER PLATE: [WS]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/96. 455×295/435; engraving proof *r* [pencil] 'Convolvulus flavus' [unknown]; col. engraving 1985 *BF*: pl. 374.

J38 **IPOMEA AQUATICA** Forsskål, *Fl. aegypt.-arab.*: 44 (1755).

SPECIMEN: Batavia.

MANUSCRIPT: Solander, D. Pl. Java.: 169 'Convolvulus itinerarius'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 350×415/305.

FINISHED DRAWING: watercolours. 350×525/295; see Carr, D. J. [Ed.] 1983 pl.

180 p. 189.

Copper plate: [WS]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 5/101. 295×460/275; engraving proof *r* [pencil] 'Convolvulus itinerarius' [unknown]; col. engraving 1985 *BF*: pl. 375.

Notes: see also J41.

SOLANACEAE

J39 Capsicum nigrum Willdenow, *Enum. pl.*: 242 (1809).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java. Index: 11 [index entry only, no description] 'Capsicum nigrum'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Pods a shining black.' [SP]; '3' [unknown]; 'Capsicum nigrum' [unknown]; [ink] 'Batavia' [JB]. 370×265/255.

Finished drawing: watercolours. 515×345/275.
Bacstrom, S. Ms.: 32.

THUNBERGIACEAE

J40 Thunbergia fragrans Roxburgh, *Pl. Coromandel* **1**: 47, t. 67 (1796).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 126–127 'Thunbergia volubilis'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines [SP]; *v* [pencil] 'The flower white faux of the tube ting'd green leaves grass green above w^{t} hollow veins below glaucus green w^{t} a high nerve & dark green veins stalk & calyx pale grass green' [SP]; '26' [unknown]; '[[Browallioides]] Thunbergia volubilis' [unknown]. 525×350/440.

Finished drawing: monochrome wash *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} [?]'. 500×340/410.

Copper plate: [DM]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 26/638. 460×295/450; engraving proof *r* [pencil] 'Thunbergia' [unknown]; col. engraving 1985 *BF*: pl. 376.

CONVOLVULACEAE

J41 Aniseia martinicensis (Jacquin) Choisy, *Mém. Soc. Phys. Hist. nat. Genève* **8**: 66 (1838).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 169 'Convolvulus martinicensis'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]. 520×345/415.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}'. 520×350/415.

Copper plate: [CW]; Bacstrom, S. Ms.: 30, Brown, R. Ms.: 5/103. 460×295/415; engraving proof *r* [pencil] 'Convolvulus martinicensis' [unknown]; col. engraving 1985 *BF*: pl. 377.

Notes: see also J37 and J38.

ACANTHACEAE

J42 Eranthemum nervosum (Vahl) R. Brown ex Roemer & Schultes, *Syst. veg.* **1** (1): 174 (1817).

Specimen: South of Anger Point.

Manuscript: Solander, D. Pl. Java.: 4–6 'Justicia cyanea'; Solander, D. Slip Catalogue **1**: 621–624.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '41' [unknown]; 'Justicia cyanea' [unknown]. 520×350/445.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1773'; 'Justicia cyanea.' [unknown]. 520×345/445; see Carr, D. J. [Ed.] 1983 pl. 181 p. 190.

Copper plate: [TM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 1/23. 455×295/445; engraving proof *r* [pencil] 'Justicia cyanea' [unknown]; col. engraving 1985 *BF*: pl. 378.

J43 Rhinacanthus nasutus (Linnaeus) Kurz, *J. Asiat. Soc. Beng.* **39** (2): 79 (1870).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 13–15 'Justicia umbratilis'; Solander, D. Slip Catalogue **1**: 617–620.

Outline drawing: pencil outlines with colour references [SP]. 525×345/395.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t} 1773'. 525×350/405.
Bacstrom, S. Ms.: 8.

Notes: Solander has two references to *Justicia* species in the Slip Catalogue. Only the one cited above, *J. umbratilis* refers to Parkinson's drawing but has Anger Point as the Javan locality. There is no specimen on which to confirm its identity. The slip in Volume I page 543, *J. nasuta* appears to be the same species collected from Batavia but has no reference to a Parkinson drawing. However, it does agree with the locality of the only known specimen at the BM(NH).

LABIATAE

J44 **Leucas lavandulifolia** Smith in Rees, *Cycl.* **20**: n. 2 (1812).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 31 'Phlomis obliqua'; Solander, D. Slip Catalogue **XIII**: 101–108.

Outline drawing: pencil outlines with colour references [SP]. 525×350/415.
Bacstrom, S. Ms.: 94.

ACANTHACEAE

J45 **Hemigraphis brunelloides** (Lamarck) Bremekamp, *Verh. K. ned. Akad. Wet.*, section 2, **41** (1): 90 (1944) var. BRUNELLOIDES.

Specimen: no locality.

Manuscript: Solander, D. Pl. Java. Index: 30 [index entry only, no description] 'Ruellia crispa'; Solander, D. Slip Catalogue **XIII**: 679–681.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the flower pale crimson a little deeper on the inside than the out' [SP]; '68' [unknown]; 'Ruellia crispa' [unknown]; '[[Prunellioides]]' [unknown]. 525×350/365.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}: 1782'. 510×340/360.
Bacstrom, S. Ms.: 96.

VERBENACEAE

J46 **Callicarpa albida** Blume, *Bijdr.*: 818 (1826).

Specimen: 2 sheets, Princes Island.

Manuscript: Solander, D. Pl. Java.: 102–103 'Callicarpa margaritacea'; [not in Solander, D. Slip Catalogue] ; 1973 *CF*: pl. 29 *pro descr.*

Outline drawing: pencil outlines [SP]; *v* [pencil] 'The flowers pale lilac the stamina yellow the leaves on the upper side grass green w^{t} hollow veins & a light nerve, below pale grass green w^{t} very prominent pale veins, the fruit when young green when ripe white.' [SP]; '25' [unknown]; 'Callicarpa margaritacea' [unknown]. 525×350/395.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller Pinx^{t} 1773.'; *v* [pencil] 'Callicarpa margaritacea.' [unknown]. 520×345/465; see Carr, D. J. [Ed.] 1983 pl. 182 p. 191.

Copper plate: [GS]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 9/208. 460×295/450; engraving proof *r* [pencil] 'Callicarpa margaritacea' [unknown]; engraving 1973 *CF*: pl. 29; col. engraving 1985 *BF*: pl. 379.

J47 **Clerodendrum paniculatum** Linnaeus, *Mant. pl.* **1**: 90 (1767).

Specimen: 2 sheets, 1 – Batavia.

Manuscript: Solander, D. Pl. Java. Index: 30 [index entry only, no description] 'Clerodendrum paniculatum'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '43' [unknown]; 'Clerodendrum panniculatum' [unknown]. 525×350/405.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, Pinx^{t} 1782'. 505×345/420; see Carr, D. J. [Ed.] 1983 pl. 183 p. 192.

Copper plate: [DM, '1783']; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 28/682. 460×300/420; engraving proof *r* [pencil] 'Clerodendron paniculatum' [unknown]; 'D. Mackenzie' [unknown]; col. engraving 1985 *BF*: pl. 380.

J48 **Clerodendrum calamitosum** Linnaeus, *Mant. pl.* **1**: 90 (1767).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java. Index: 30 [index entry only, no description] 'Clerodendrum calyculatum'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines [SP]; *v* [pencil] 'The flower white lower part of the petala & tube crimson – stamina & stile white anthera black, the leaves above yellow green w^{t} dark veins below more glaucous w^{t} pale prominent veins [[foliola]] calycine pale green when covering the capsula' [SP]. 520×350/410.
Bacstrom, S. Ms.: 96.

J49 **Duranta Repens** Linnaeus, *Sp. pl.* **2**: 637 (1753).

Specimen: *.

Manuscript: Solander, D. Pl. Java.: 6–9 'Volkameria serrata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The fruit when ripe black when young green' [SP]; '60' [unknown]; 'Duranta speciosa' [unknown]. 525×350/410.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} [?]'. 525×350/445.

Copper plate: [DM, '1782']; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 28/681. 460×300/440; [no engraving proof]; col. engraving 1985 *BF*: pl. 381.

J50 **Vitex pinnata** Linnaeus, *Sp. pl.* **2**: 638 (1753).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java. Index: 29 [index entry only, no description] 'Vitex arborea'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The open petala of the flower blue lilac, the rest white the stamina also the anthera black' [SP]; '11.' [unknown]; 'Vitex arborea' [unknown]. 520×350/325.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} [?]'.

525×350/375.

Copper plate: [GS, '1781']; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 28/680. 460×300/375; [no engraving proof]; col. engraving 1985 *BF*: pl. 382.

AVICENNIACEAE

J51 **Avicennia marina** (Forsskål) Vierhapper var. **intermedia** (Griffith) Bakhuizen van der Brink, *Bull. Jard. bot. Buitenz.*, sér. 3, **3**: 211, t. 17, 18 (1921).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 170 'Bontia littoralis'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]. 515×345/370.
Bacstrom, S. Ms.: 96.

LABIATAE

J52 **Pogostemon auricularius** (Linnaeus) Hasskarl, *Tijdschr. Natuurl. Gesch. Physiol.* **10**: 127 (1843).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 82–84 'Mentha foetida'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The buds before blown pale crimson w^{t} the bractea grass green stamina pale crimson the over blown dirty green ting'd w^{t} red' [SP]. 525×350/345.
Bacstrom, S. Ms.: 94.

POLYGONACEAE

J53 **Polygonum orientale** Linnaeus, *Sp. pl.* **1**: 362 (1753).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 35 'Polygonum orientale'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves are all cover'd over w^{t} a very fine white Down that on the young leaves more conspicuous' [SP]. 525×350/445.

Finished drawing: watercolours *r* [ink] 'Tho.^{s}. Burgis.. Pinx^{t}. 1776'.
520×355/440.
Bacstrom, S. Ms.: 64.

PIPERACEAE

J54 PIPER SARMENTOSUM Roxburgh, *Fl. ind.* **1**: 162 (1820).

SPECIMEN: 3 sheets, 1 – Princes Island, 2–3 – South of Anger Point.

MANUSCRIPT: Solander, D. Pl. Java.: 170 'Piper reptans'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]. 520×345/505.

FINISHED DRAWING: watercolours *r* [ink] 'Piper reptans' [unknown]. 520×350/470.

COPPER PLATE: [WS]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/34. 460×295/455; engraving proof *r* [pencil] 'Piper reptans' [unknown]; col. engraving 1985 *BF*: pl. 383.

URTICACEAE

J55 POIKILOSPERMUM SUAVEOLENS (Blume) Merrill, *Contr. Arnold Arbor.* **8**:47 (1934).

SPECIMEN: see J31.

MANUSCRIPT: Solander, D. Pl. Java.: 91–92, 138–139 'Naucleoides alternifolia'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines [SP]; *r* [pencil] 'The colours the same as in the other sex' [SP]. 525×350/405.
Bacstrom, S. Ms.: 136

LORANTHACEAE

J56 DENROPTHOE PENTANDRA (Linnaeus) Miquel, *Fl. Ned. Ind.* **1**: 818 (1856).

SPECIMEN: Batavia.

MANUSCRIPT: Solander, D. Pl. Java.: 61–63 'Loranthus pentandrus'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The underside of the leaves somewhat paler' [SP]. 525×345/395.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinxt: 1775...'. 520×350/390; see Carr, D. J. [Ed.] 1983 pl. 184 p. 193.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 13/319. 460×295/400; engraving proof *r* [pencil] 'Loranthus pentandrus α' [unknown]; col. engraving 1985 *BF*: pl. 384.

J57 SCURRULA ATROPURPUREA (Blume) Danser, *Bull. Jard. bot. Buitenz.*, sér 3, **10**: 349 (1929).

SPECIMEN: Batavia.

Manuscript: Solander, D. Pl. Java.: 71–72 ‘Loranthus scurrula’; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘Flower citron colour stamina & stile dark purple anthera buff on the inside & red on the outside the under side of the leaves paler w^{t} prominent veins’ [SP]; ‘60 [?]’ [unknown]; ‘Loranthus ringens’ [unknown]. 520×350/415.

Finished drawing: watercolours *r* [ink] ‘Jn^{o}. Cleveley Jun^{or}. Pinxt: 1773’.; *v* [pencil] ‘Loranthus ringens’ [unknown]. 520×350/415.

Copper plate: [JG]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 13/322. 460×295/410; engraving proof *r* [pencil] ‘Loranthus [[ringens]] scurrula’ [unknown]; col. engraving 1985 *BF*: pl. 385.

J58 **Lepeostegeres geminiflorus** (Blume) Blume in Schultes, *Syst. veg.* **7** (2): 1611 (1830).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 52–53, 60 ‘Loranthus capitatus’; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The stamina scarlet anthera buff colour petala pale red tubes yellow’ [SP]; ‘63’ [unknown]; ‘Loranthus capitatus’ [unknown]. 520×350/440.

Finished drawing: watercolours *r* [ink] ‘James. Miller Pinx^{t}: 1775’. 525×355/450.

Copper plate: [CW]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 13/323. 460×295/450; engraving proof *r* [pencil] ‘Loranthus capitatus’ [unknown]; ‘White engr.’ [unknown]; col. engraving 1985 *BF*: pl. 386.

STILAGINACEAE

J59 **Antidesma bunius** Sprengel, *Syst. veg.* **1**: 826 (1824).

Specimen: *.

Manuscript: Solander, D. Pl. Java.: 149 ‘Gnemon femina’; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The male flowers pale green ting’d w^{t} red anthera black the old Stalks grey brown when old quite red.’ [SP]; ‘70’ [unknown); ‘[[Gnemon faemina]]’ [unknown]; ‘Osyroides panniculata’ [unknown]. 520×350/440.

Finished drawing: watercolours *r* [ink] ‘Fred^{k}. Polydore Nodder Pinx^{t}. 1783’. 510×340/435.

Copper plate: [GS]; Bacstrom, S. Ms.: 136; Brown, R. Ms.: 27/675. 460×295/430; engraving proof *r* [pencil] ‘Osyroides panniculata’ [unknown]; ‘G^{d}: Sibelius’ [unknown]; col. engraving 1985 *BF*: pl. 387.

EUPHORBIACEAE

J60 **SAUROPUS MACRANTHUS** Hasskarl, *Retzia* **1**: 166 (1855).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Java.: 144–145 'Clutioides triandra'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines [SP]; *v* [pencil] 'The male flowers very deep red the very young ones pale citron the female flowers red w^{t} a little mixture of Pale green the leaves blue grass green above below a Glaucus green, the stalks green ting'd w^{t} brown & downy the seed pale green. NB. The female flowers should hang down & by no means be erect'. [SP]; '[[Clutioides triandra]]' [unknown]; 'Cicca tricocca' [unknown]. 525×345/395.
Bacstrom, S. Ms.: 126.

J61 **JATROPHA CURCAS** Linnaeus, *Sp. pl.* **2**: 1006 (1753).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Java.: 3–4, 30 'Jatropha curcas'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The young leaves stain'd w^{t} reddish coffee colour the petiolae next the leaf stain'd w^{t} red.' [SP]. 525×350/395.
Bacstrom, S. Ms.: 128.

J62 **CODIAEUM VARIEGATUM** (Linnaeus) Blume, *Bijdr.*: 606 (1826).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Java.: 92–94, 97 'Croton patulum'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The upper side of the leaves vivid grass green w^{t} pale & hollow veins the under side Glaucus almost white w^{t} prominent veins the buds & Capsula pale green petala white Anthera pale yellow Stalk brown green.' [SP]. 520×350/455.
Bacstrom, S. Ms.: 128.

J63 **BREYNIA CERNUA** (Poiret) J. Mueller in de Candolle, *Prodr.* **15** (2): 439 (1862).

SPECIMEN: no locality.

MANUSCRIPT: Solander, D. Pl. Java.: 105–106 'Andrachnoides calyculata'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Andrachnoides calyculata' [unknown]. 520×350/360.
Bacstrom, S. Ms.: 136.

J64 **Securinega virosa** (Roxburgh ex Willdenow) Baillon, *Adansonia* 6: 334 (1865-6).

Specimen: *.

Manuscript: Solander, D. Pl. Java.: 103–104, 112–113 'Andrachnoides angulata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]. 520×350/375.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1783'. 505×335/365.

Copper plate: [GS]; Bacstrom, S. Ms.: 136; [not in Brown, R. Ms.]. 455×295/360; engraving proof *r* [pencil] 'Androchinoides angulata' [unknown]; 'G^{d} Sibelius' [unknown]; col. engraving 1985 *BF*: pl. 388.

ORCHIDACEAE

J65 **Dendrobium crumenatum** Swartz ex Schrader, *Journ.* **2**: 237 (1800).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 172 'Epidendrum aviculare'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white the middle part of the lower petala yellow' [SP]; '38.' [unknown]; 'Epidendrum aviculare' [unknown]. 525×350/395.
Bacstrom, S. Ms.: 122.

J66 **Arachnis flos-aeris** Reichenbach f., *Bot. Zbl.* **28**: 343 (1886).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 85–88, 90 'Epidendrum Flos aëris'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '37' [unknown]; 'Epidendrum Flos aeris' [unknown]. 520×355/445.
Bacstrom, S. Ms.: 122.

ZINGIBERACEAE

J67 **Boesenbergia pandurata** (Roxburgh) Schlechter, *Feddes Reprium* **12**: 316 (1913).

Specimen: Princes Island.

Manuscript: Solander, D. Pl. Java.: 140–142 'Kaempferia erubescens'; Solander, D. Slip Catalogue **1**: 127–134.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'deep purple' '2 very pale crimson' 'vein'd w^{t} deep crimson' 'crimson a little deeper' '2' [SP]; *v* 'The flower very pale crimson the top of the largest petala deep violet colour' [SP]; '35' [unknown]. '[[Maranta humilis]]' [unknown]; 'Kaempferia erubescens Ms' [unknown]. 525×340/460.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}. 1773.'; 'Kaempferia erubescens' [unknown]. 520×345/455.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 4; Brown, R. Ms.: 1/1. 460×300/445; engraving proof *r* [pencil] 'Kaempferia erubescens' [unknown]; col. engraving 1985 *BF*: pl. 389.

J68 Elettaria cardamomum (Linnaeus) Maton, *Trans. Linn. Soc. Lond.* **10**: 254, t. 5 (1811).

Specimen: Batavia.

Manuscript: Solander, D. Pl. Java.: 48–50 'Amomum compactum'; Solander, D. Slip Catalogue **1**: 41–48.

Outline drawing: pencil outlines [SP]; *v* [pencil] '1' [unknown]; 'Amomum compactum Mss' [unknown]; '137' [unknown]; [ink] 'Batavia' [JB]. 180×270/75. Bacstrom, S. Ms.: 4.

Notes: the 4 outlines are numbered Fig. 1 – Fig. 4 and have alphabetical annotations.

J69 Globba marantina Linnaeus, *Mant. pl.* **2**: 170 (1771).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java.: 128–130 'Kaempferioides gynandra'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'deep violet' 'orange' 'white' 'violet' 'orange' 'pale violet' 'white' [SP]; *v* '33' [unknown]; 'Kempferioides gynandra' [unknown]. 520×350/420.

Finished drawing: watercolours *r* [pencil] 'purple petala ovata' 'too large ought not to be bigger than the uppermost' [unknown]; [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} 1782'. 505×340/440.

Copper plate: [?]; Bacstrom, S. Ms.: 124; [not in Brown, R. Ms.]. 460×300/430. [no engraving proof]; col. engraving 1985 *BF*: pl. 390.

PONTEDERIACEAE

J70 Monochoria hastata (Linnaeus) Solms-Laubach in A. de Candolle, *Monogr. phan.* **4**: 525 (1883).

Specimen: no locality.

Manuscript: Solander, D. Pl. Java. Index: 16 [index entry only, no description] 'Pontederia sagittata'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Pontederia hastata' [unknown]. 520×350/455.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder. Pinx^{t}. 1783'. 500×345/450; see Carr, D. J. [Ed.] 1983 pl. 185 p. 194.
Bacstrom, S. Ms.: 48.

ALISMATACEAE

J71 **LIMNOPHYTON OBTUSIFOLIUM** Miquel, *Fl. Ned. Ind.* **3**: 243 (1856).

SPECIMEN: Batavia.

MANUSCRIPT: Solander, D. Pl. Java. Index: 46 [index entry only, no description] 'Sagittaria acuminata'; [not in Solander, D. Slip Catalogue].

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Leaves yellow green vein'd w^{t} paler.' [SP]; '59[?]' [unknown]; 'Sagittaria obtusifolia' [unknown]. 520×350/420.
Bacstrom, S. Ms.: 128.

MADEIRA

AQUIFOLIACEAE

M1 **Ilex perado** Solander in Aiton, *Hort. kew.* **1**: 169 (1789).

Specimen: 1 sheet.[1]

Manuscript: Solander, D. Primit. Fl. Mad.: 7 'Ilex perado'; Solander, D. Slip Catalogue **IV**: 495–500; Banks, J. Cat. Pl.: 2.

Finished drawing: watercolours *r* [ink] 'Ilex Perado' [SP]; 'Sydney Parkinson pinx^{t} 1768.'. 440×280/370.
Bacstrom, S. Ms.: 24.

M2 **Ilex canariensis** Poiret, *Encycl.*, suppl. **3**: 67 (1813).

Specimen: 1 sheet.

Manuscript: Solander, D. Primit. Fl. Mad.: 6–7 'Ilex azevinho'; Solander, D. Slip Catalogue **IV**: 501–502; Banks, J. Cat. Pl.: 2.

Finished drawing: watercolours *r* [ink] 'Ilex Azevinho.' [SP]; 'Sydney Parkinson pinx^{t} 1768' [SP]. 440×280/340.
Bacstrom, S. Ms.: 24.

LEGUMINOSAE

M3 **Lotus glaucus** Dryander in Aiton, *Hort. kew.* **3**: 92 (1789).

Specimen: 2 sheets (syntype).

Manuscript: Solander, D. Primit. Fl. Mad.: 25–26 'Lotus glaucus'; Solander, D. Slip Catalogue **XV**: 533–555; Banks, J. Cat. Pl.: 6.

Finished drawing: watercolours *r* [ink] 'Lotus glaucus' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; 'T.31. Maderia' [unknown]. 290×225/205; see Carr, D. J. [Ed.] 1983 pl. 41 p. 47, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 16/389. 460×295/200; engraving proof *r* [pencil] 'Lotus glaucus' [unknown]; see Stearn, W. T. 1968 *Endeavour* **XXVII**: 4, fig. 1; col. engraving 1985 *BF*: pl. 391.

MYRTACEAE

M4 **Eugenia jambos** Linnaeus, *Sp. pl.* **1**: 470 (1753).

Specimen: 2 sheets.

Manuscript: Solander, D. Primit. Fl. Mad.: 18–19 'Eugenia jambos'; Solander, D. Slip Catalogue **XI**: 583–584; Banks, J. Cat. Pl.: 4.

Finished drawing: watercolours *r* [ink] 'Eugenia Jambos. Linn.' [SP]; 'Sydney

[1] all specimens are annotated simply Madeira.

Parkinson pinx^{t} 1768.’; ‘T. 34. Madeira’ [unknown]. 290×235/225; see Carr, D. J. [Ed.] 1983 pl. 45 p. 50, col. pl.
Bacstrom, S. Ms.: 86.

M5 EUGENIA UNIFLORA Linnaeus, *Sp. pl.* **1**: 470 (1753).

Specimen: 1 sheet.

Manuscript: Solander, D. Primit. Fl. Mad.: 19 ‘Eugenia pulposa’; [not in Solander, D. Slip Catalogue]; Banks, J. Cat. Pl.: 4.

Outline drawing: pencil outlines with colour references [SP]; *r* [ink] ‘Myrtus pulposa.’ [unknown]; ‘T. 29. Madeira’ [unknown]. 220×155/150.

Finished drawing: watercolours *r* [ink] ‘Myrtus pulposus’ [SP]; ‘Sydney Parkinson pinx^{t}.: 1768.’ [SP]; ‘T. 29. Madeira’ [unknown]; [pencil] ‘The berries changes from green thro several stages to dark crimson’ [SP]. 360×255/260.
Bacstrom, S. Ms.: 86.

LYTHRACEAE

M6 LYTHRUM JUNCEUM Banks & Solander in Russell, *Nat. hist. Aleppo ed. 2*, **2**: 253 (1794).

Specimen: 1 sheet.

Manuscript: Solander, D. Primit. Fl. Mad.: 18 ‘Lythrum hyssopifolia’; Solander, D. Slip Catalogue **xi**: 351; Banks, J. Cat. Pl.: 4.

Outline drawing: pencil outlines with colour references [SP]; *r* [ink] ‘Lithrum hyssopifolia’ [SP]; ‘T. 28. Madeira’ [unknown]. 290×220/220.

Finished drawing: watercolours *r* [ink] ‘Tho^{s}.Burgis Pinx^{t}.1776’. 465×285/235; see Carr. D. J. [Ed.] 1983 pl. 42 p. 48, col. pl.

Copper plate: [DM, ‘1782’]; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 29/726. 460×300/215; engraving proof *r* [pencil] ‘Lithrum juncea’ [unknown]; ‘D. Mackenzie’ [unknown]; col. engraving 1985 *BF*: pl. 392.

COMPOSITAE

M7 HELICHRYSUM OBCONICUM de Candolle, *Prodr.* **6**: 181 (1838).

Specimen: 2 sheets.

Manuscript: Solander, D. Primit. Fl. Mad.: 29 ‘Gnaphalium crassifolium’; Solander, D. Slip Catalogue **xvi**: 433–434; Banks, J. Cat. Pl.: 7.

Finished drawing: watercolours *r* [ink] ‘Gnaphalium crassifolium. Linn.’ [SP]; ‘Sydney Parkinson pinx^{t} 1768.’; ‘T. 27. Madeira’ [unknown]. 460×275/370; see Carr, D. J. [Ed.] 1983 pl. 43 p. 48, col. pl.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 17/410. 460×295/370; engraving proof *r* [pencil] ‘Gnaphalium crassifolium’ [unknown]; col. engraving 1985 *BF*: pl. 393.

CLETHRACEAE

M8 **Clethra arborea** Solander in Aiton, *Hort. kew.* **2**: 73 (1789).

Specimen: 2 sheets.

Manuscript: Solander, D. Primit. Fl. Mad.: 16 'Clethra arborea'; Solander, D. Slip Catalogue **x**: 687–690; Banks, J. Cat. Pl.: 4.

Finished drawing: watercolours *r* [ink] 'Clethra arborea.' [SP]; 'Sydney Parkinson pinx^{t}: 1768.'; 'T. 32. Madeira' [unknown]. 290×235/280.

Copper plate: [GS]; Bacstrom, S. Ms.: 74; Brown, R. Ms.: 7/162. 460×295/280; engraving proof *r* [pencil] 'Clethra arborea' [unknown]; col. engraving 1985 *BF*: pl. 394.

MYRSINACEAE

M9 **Heberdenia bahamensis** (Gaertner) Sprague, *J. Bot., Lond.* **61**: 241 (1923).

Specimen: 2 sheets.

Manuscript: Solander, D. Primit. Fl. Mad.: 9 'Heberdenia excelsa'; Solander, D. Slip Catalogue **vi**: 43–46; Banks, J. Cat. Pl.: 3.

Finished drawing: watercolours *r* [ink] 'Heberdenia excelsa.' [SP]; 'Sydney Parkinson pinx^{t}. 1768.'; 'T. 39. Madeira' [unknown]. 290×230/265; see Carr, D. J. [Ed.] 1983 pl. 44 p. 49, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 32, 34; Brown, R. Ms.: 5/112. 460×295/260; engraving proof *r* [pencil] 'Leucoxylum excelsum' [unknown]; col. engraving 1985 *BF*: pl. 395; see Adams, B. 1986 col. pl.

EBENACEAE

M10 **Diospyros lotus** Linnaeus, *Sp. pl.* **2**: 1057 (1753).

Specimen: 1 sheet.

Manuscript: Solander, D. Primit. Fl. Mad.: 36 'Diospyros lotus'; Solander, D. Slip Catalogue **xxi**: 357; Banks, J. Cat. Pl.: 8.

Finished drawing: watercolours *r* [ink] 'Diospyros lotus Linn.' [SP]; 'Sydney Parkinson pinx^{t}. 1768.'; 'T. 35. Madeira' [unknown]. 290×235/255; see Beaglehole, J. C. 1962 **1**: pl. 24; Carr, D. J. [Ed.] 1983 pl. 46 p. 51, col. pl.
[Not in Bacstrom].

CONVOLVULACEAE

M11 **Convolvulus althaeoides** Linnaeus, *Sp. pl.* **1**: 156 (1753).

Specimen: 1 sheet.

Manuscript: Solander, D. Primit. Fl. Mad.: 8 'Convolvulus flexuosus'; Solander,

D. Slip Catalogue **V**: 201–202; Banks, J. Cat. Pl.: 2.

FINISHED DRAWING: watercolours *r* [ink] 'Convolvulus serpens.' [SP]; [pencil] 'Sydney Parkinson pinx^{t} 1768'. 280×435/195; see Carr, D. J. [Ed.] 1983 pl. 48 p. 54, col. pl.

COPPER PLATE: [TS]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/94. 460×295/190; engraving proof *r* [pencil] 'Convolvulus flexuosus' [unknown]; col. engraving 1985 *BF*: pl. 396.

SCROPHULARIACEAE

M12 **KICKXIA SPURIA** (Linnaeus) Dumortier subsp. **INTEGRIFOLIA** (Brotero) R. Fernandes, *J. Linn. Soc.* (Bot.) **64**: 74 (1971).

SPECIMEN: 1 sheet.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 22 'Antirrhinum cordatum'; Solander, D. Slip Catalogue **XIII**: 305–306; Banks, J. Cat. Pl.: 5.

FINISHED DRAWING: watercolours *r* [ink] 'Antirrhinum cordatum' [SP]; 'Sydney Parkinson pinx^{t} 1768.'. 235×270/180.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 8/180. 460×295/180; engraving proof *r* [pencil] 'Antirrhinum cordatum' [unknown]; col. engraving 1985 *BF*: pl. 397.

M13 **SIBTHORPIA PEREGRINA** Linnaeus, *Sp. pl.* **2**: 631 (1753).

SPECIMEN: 1 sheet.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 12–13 'Meadia repens'; Solander, D. Slip Catalogue **IX**: 301–304; Banks, J. Cat. Pl: 3.

FINISHED DRAWING: watercolours *r* [ink] 'Meadia repens' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; 'T. 36. Madeira' [unknown]. 230×255/130; see Carr, D. J. [Ed.] 1983 pl. 49 p. 54, col. pl.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 56; Brown, R. Ms.: 9/224. 460×295/130; engraving proof *r* [pencil] 'Disandra prostrata' [unknown]; col. engraving 1985 *BF*: pl. 398.

GLOBULARIACEAE

M14 **GLOBULARIA SALICINA** Lamarck, *Encycl.* **2**: 732 (1788).

SPECIMEN: 2 sheets.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 5–6 'Alypum longifolium'; Solander, D. Slip Catalogue **III**: 681–682; Banks, J. Cat. Pl.: 2.

FINISHED DRAWING: watercolours *r* [ink] 'Alypum angustifolium' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; 'T. 37. Madeira' [unknown]. 290×220/255; see Carr, D. J. [Ed.] 1983 pl. 47 p. 52, col. pl.

COPPER PLATE: [TS]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/55. 460×295/

255; engraving proof *r* [pencil] 'Alypum angustifolium' [unknown]; col. engraving 1985 *BF*: pl. 399.

LABIATAE

M15 LAVANDULA PINNATA Lundmark, *Lavandula*: 11 (1780).

SPECIMEN: 1 sheet.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 21 'Lavandula pinnata'; Solander, D. Slip Catalogue **XII**: 773–775; Banks, J. Cat. Pl.: 5.

FINISHED DRAWING: watercolours *r* [ink] 'Lavandula pinnata' [unknown]; *v* 'Madera' [JB]. 360×250/325.
Bacstrom, S. Ms.: 94.

LAURACEAE

M16 OCOTEA FOETENS (Solander in Aiton) Bentham in Hooker & Hooker f., *Gen. pl.* **3**: 158 (1880).

SPECIMEN: 1 sheet.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 15 'Laurus foetens'; Solander, D. Slip Catalogue **X**: 201–206; Banks, J. Cat. Pl.: 3.

FINISHED DRAWING: watercolours *r* [ink] 'Laurus feotens' [SP]; 'S. Parkinson pinx^{t} 1768.; 'T. 38. Madeira' [unknown]. 290×235/255; see Carr, D. J. [Ed.] 1983 pl. 50 p. 55, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 68; Brown, R. Ms.: 7/161. 460×295/255; engraving proof *r* [pencil] 'Laurus foetens' [unknown]; col. engraving 1985 *BF*: pl. 400.

SMILACACEAE

M17 SMILAX ASPERA Linnaeus, *Sp. pl.* **2**: 1028 (1753).

SPECIMEN: 3 sheets.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 33 'Smilax latifolia'; Solander, D. Slip Catalogue **XX**: 291–293; Banks, J. Cat. Pl.: 7.

FINISHED DRAWING: watercolours *r* [ink] 'Smilax latifolia' [unknown]. 355×255/320; see Adams, B. 1986 p. 20 col. pl.
Bacstrom, S. Ms.: 134.

ARACEAE

M18 ARUM ITALICUM Miller, *Gard. dict. ed. 8*: no. 2 (1768).

SPECIMEN: 1 sheet.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 31 'Arum pictum'; Solander, D.

Slip Catalogue **XIX**: 427–428; Banks, J. Cat. Pl.: 7.

FINISHED DRAWING: watercolours *r* [ink] 'Arum pictum' [SP]; 'S. Parkinson pinx^{t} 1768–'. 280×225/210.
Bacstrom, S. Ms.: 124.

GRAMINEAE

M19 BRIZA MINOR Linnaeus , *Sp. pl.* **1**: 70 (1753).

SPECIMEN: 1 sheet.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 4 'Briza minor'; [not in Solander, D. Slip Catalogue]; Banks, J. Cat. Pl.: 1.

FINISHED DRAWING: watercolours *r* [ink] 'Briza minor. Linn' [SP]; 'Sydney Parkinson pinx^{t} 1768.'; 'T. 26. Madeira' [unknown]; *v* [pencil] 'Briza [?] minor' [unknown]. 465×270/395.
Bacstrom, S. Ms.: 16.

PTERIDACEAE

M20 PTERIS ARGUTA Dryander in Aiton, *Hort. kew.* **3**: 458 (1789).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 37 'Pteris serrulata'; Solander, D. Slip Catalogue **XXII**: 269; Banks, J. Cat. Pl.:8.

FINISHED DRAWING: watercolours *r* [ink] 'Osmunda maderiensis' [unknown]; [ink] 'T. 62. Madeira' [unknown]. 365×255/320.
Bacstrom, S. Ms.: 144.

THELYPTERIDACEAE

M21 CHRISTELLA DENTATA (Forsskål) Brownsey & Jermy, *Br. Fern Gaz.* **10** (6): 338 (1973).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 37 'Polypodium thelypteris'; [not in Solander, D. Slip Catalogue]; Banks, J. Cat. Pl.: 8.

FINISHED DRAWING: watercolours *r* [ink] 'Polypodium Thelipteris Linn.' [unknown]; *v* [ink] 'Madeira' [JB]. 360×260/330.
Bacstrom, S. Ms.: 144.

ASPLENIACEAE

M22 ASPLENIUM MONANTHES Linnaeus, *Syst. nat. ed. 12*, **2**: 690(1767). ('monanthemum'); *Mant. pl.:* 130 (1767).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Primit. Fl. Mad.: 37 'Asplenium monanthes';

Solander, D. Slip Catalogue **XXII**: 233; Banks, J. Cat. Pl.: 8.

FINISHED DRAWING: watercolours *r* [ink] 'Asplenium monanthes Linn.' [unknown]; *v* [ink] 'Madeira' [JB]. 350×250/170.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 15/369. 460×295/170; engraving proof *r* [pencil] 'Asplenium monanthes' [unknown]; col. engraving 1985 *BF*: pl. 401.

NEW ZEALAND

RANUNCULACEAE

NZ1/1 **CLEMATIS FORSTERI** J. Gmelin, *Syst. nat.* (1): 873 (1791).

SPECIMEN: Teoneroa, Tegadu Bay, Tolaga Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 36–38, 61–62 'Clematis [[polypetala]] odorata'; Solander, D. Slip Catalogue **XII**: 651–654.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white, stiles pale yellow green' [SP]; '101' [unknown]; 'Clematis odorata' [unknown]; [ink] 'Taoneroa' [JB]. 455×270/370.

FINISHED DRAWING: watercolours *r* [ink] 'Fred$^{k.}$ Polydore Nodder Pinx^{t}. 1778'; [pencil] 'not to be haired' [unknown]. 525×360/380.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 25/617. 460×300/380; engraving proof *r* [pencil] 'Clematis odorata' [unknown]; col. engraving 1985 *BF*: pl. 402.

NZ1/2 **RANUNCULUS ACAULIS** Banks & Solander ex de Candolle, *Syst. nat.* **I**: 270 (1817).

SPECIMEN: *Opoorage (holotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 147–148 'Ranunculus acaulis'; Solander, D. Slip Catalogue **XII**: 673–676.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '5 Petals' [unknown]; *v* 'The Calyx to be made less in proportion to the Petala and more yellowish.' [unknown]; 'the flower yellow, calyx pale membranaceous colour the leaves and capsulae fresh green the stalks the same but paler.' [SP]; '99' [unknown]; 'Ranunculus acaulis' [unknown]; [ink] 'Opoorage' [JB]. 295×230/100.

FINISHED DRAWING: watercolours *r* [ink] 'Frederick Polydore Nodder Pinx^{t} [?]'; [pencil] 'Calyx obtuse, flat.' 'Petal erect see Fig.' [unknown]. 525×355/120.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 21/505. 460×300/120; engraving proof *r* [pencil] 'Ranunculus acaulis' [unknown]; col. engraving 1985 *BF*: pl. 403.

NZ1/3 **RANUNCULUS HIRTUS** Banks & Solander ex de Candolle, *Syst. nat.* **I**: 289 (1817).

SPECIMEN: Tegadu Bay, Tolaga Bay, Opoorage, Totara nui (holotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 148 *'Ranunculus [[australis]] hirtus'; Solander, D. Slip Catalogue **XII**: 681–684.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The upper side of the leaves a fresh green the underside more Glaucus the flowers yellow the whole plant hairy' [SP]; '97' [unknown]; 'Ranunculus hirtus' [unknown]; [ink] 'Tegadu' [JB]. 360×265/295.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk. Polydore Nodder Pinxt [?]'; [pencil] 'obtuse' 'hollow' [unknown]. 525×355/315.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 23/570. 460×300/325; engraving proof *r* [pencil] 'Ranunculus hirtus' [unknown]; col. engraving 1985 *BF*: pl. 404.

NZ1/4 **RANUNCULUS RIVULARIS** Banks & Solander ex de Candolle, *Syst. nat.* **1**: 270 (1817).

SPECIMEN: *Totara nui (holotype).

MANUSCRIPT: Solander, D. Pl. Austral (NZ) **2**: 248 *'Ranunculus rivularis'; Solander, D. Slip Catalogue **XII**: 677–680.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'a flower' [unknown]; *v* 'The left leaf only of 3 foliola foliolum terminale trilobum, lateralia bif [?] lobis bifolis' [unknown]; 'The flowers [[pale]] & anthera pale yellow the stiles leaves & stalks herbaceous green' [SP]; [ink] 'Totarra nue' [JB]; [pencil] '98' [unknown]; 'Ranunculus rivularis' [unknown]; [ink] 'Totarr-nue' [JB]. 260×350/120.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk. Polydore Nodder Pinxt. 1778'; [pencil] 'obtuse' 'Petala flat' [unknown]. 355×525/125.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 20/483. 460×300/120; engraving proof *r* [pencil] 'Ranunculus rivularis' [unknown]; col. engraving 1985 *BF*: pl. 405.

CRUCIFERAE

NZ1/5 **RORIPPA GIGANTEA** (Hooker f.) Garnock-Jones, *N.Z. Jl Bot.* **16** (1): 119 (1978).

SPECIMEN: Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 161–162, 250 'Sisymbrium divaricatum'; Solander, D. Slip Catalogue **XII**: 121–124.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The Petala are not longer than the Calyx – the Pods are upright' [unknown]; 'the whole plant grass green somewhat pale.' [SP]; '111' [unknown]; 'Sisymbrium divaricatum' [unknown]; [ink] 'Opoorage' [JB]. 455×280/385.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk. Polydore Nodder Pinxt. 177 [?]'. 525×355/390.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 21/513. 460×300/385; engraving proof *r* [pencil] 'Sisymbrium divaricatum' [unknown]; col. engraving 1985 *BF*: pl. 406.

NZ1/6 **RORIPPA PALUSTRIS** (Linnaeus) Besser, *Enum. pl.*: 27 (1822).

SPECIMEN: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 32 'Sisymbrium pilosum';

Solander, D. Slip Catalogue **XIV**: 111–114.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The whole plant is hairy – the foliola inciso [[less]] dentata' [unknown]; 'The whole plant a fresh green the flower yellow' [SP]; '110' [unknown]; 'Sisymbrium pilosum' [unknown]; [ink] 'Motuaru' [JB]. 460×280/365.

Finished drawing: watercolours *r* [pencil] 'No Calyx under the Seeds' [unknown]; 'The stalk is angulat' [unknown]. 525×355/380.

Copper plate: [DM]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 20/493. 465×300/380; engraving proof *r* [pencil] 'Sisymbrium pilosum' [unknown]; 'D. M^{c}Kenzie engr.' [unknown]; col. engraving 1985 *BF*: pl. 407.

NZ1/7 **Cardamine debilis** Banks & Solander ex de Candolle, *Syst. nat.* **2**: 265 (1821).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 58–59 'Cardamine [[tenera]] debilis'; Solander, D. Slip Catalogue **XIV**: 97–99.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The whole plant is a fresh green except the underside of the leaves which are pale whitish green The flower white Stamina yellow' [SP]; '107' [unknown]; 'Cardamine debilis' [unknown]; [ink] 'Taoneroa' [JB]. 360×255/295.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1778'. 525×345/365.

Copper plate: [RB]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 22/545. 455×295/355; engraving proof *r* [pencil] 'Cardamine debilis' [unknown]; col. engraving 1985 *BF*: pl. 408.

NZ1/8 **Lepidium flexicaule** Kirk, *Trans. Proc. N.Z. Inst.* **14**: 380 (1882).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 158–159 'Lepidium [[dissectum]] incisum'; Solander, D. Slip Catalogue **XIV**: 23–26.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The lower leaves to be inserted and more terminal Racemes' [unknown]; 'The whole plant a grass green the flowers white with a cast of yellow green.' [SP]; '108' [unknown]; 'Lepidium incisum' [unknown]; [ink] 'Opoorage' [JB]. 355×245/260.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1778'. 525×355/265.

Copper plate: [RB]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 21/512. 460×300/265; engraving proof *r* [pencil] 'Lepidium incisum' [unknown]; col. engraving 1985 *BF*: pl. 409.

NZ1/9 **Lepidium oleraceum** G. Forster, *Pl. esc.*: 69 (1786).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Oohoorage, Motuaro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 160 'Lepidium frondosum'; Solander, D. Slip Catalogue **XIV**: 15–18.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '[?] to be drawn & the Germen altered & compressed' [unknown]; '109' [unknown]; 'Lepidium frondosum' [unknown]; [ink] 'Opoorage' [JB]. 465×270/365.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. [?]'. 525×355/380.

Copper plate: [DM]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 20/492. 460×300/380; engraving proof *r* [pencil] 'Lepidium frondosum' [unknown]; 'D. Mackenzie Engr.' [unknown]; col. engraving 1985 *BF*: pl. 410.

VIOLACEAE

NZ1/10 **Melicytus ramiflorus** Forster & G. Forster, *Char. gen. pl.*: 124, t.62 (1775).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 14 '[[Rhamnus dioicus]] Tachites umbellulifera'; Solander, D. Slip Catalogue **XX**: 245–249; 1973 *CF*: pl. 8 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves a grass green vein'd w^{t} lighter. the underside paler, the young leaves a yellow green. the stalks greyish. the petals pale green the calyx darker' [SP]; '20' [unknown]; 'Tachites umbellulifera' [unknown]. 525×355/400.

Finished drawing: watercolours *r* [ink] 'Sydney Parkinson pinx^{t} 1770.'; 'Tachites umbellulifera.' [SP]; *v* 'T [?] umbellulifera' [unknown]. 525×355/450; see Beaglehole, J. C. 1962 **2**: pl. 14.

Copper plate: [GS]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 17/411. 460×300/440; engraving proof *r* [pencil] 'Tachites umbellifera' [unknown]; engraving 1973 *CF*: pl. 8; col. engraving 1985 *BF*: pl. 411.

PITTOSPORACEAE

NZ1/11 **Pittosporum tenuifolium** Banks & Solander ex Gaertner, *Fruct. sem. pl.* **1**: 286, t. 59, f. 7 (1788).

Specimen: Tolaga Bay, Opoorage, Oohoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 72, 73, **2**: 302, 306 '[[Drospyroides]] tenuifolia Pittosporum tenuifolium'; Solander, D. Slip Catalogue **VI**: 523–526.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'A' [SP]; *v* 'The Calyx at A too obtuse short' [unknown]; 'the flowers blk purple the outside of the tube paler [?] the capsula pale green the upper side of [?]' [SP]; 'Tolaga' [unknown]. 430×275/350.

Finished drawing: watercolours *v* [pencil] 'Pittosporum tenuifolium' [unknown]. 500×355/365.

Copper plate: [DM]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 9/220. 460×295/365; engraving proof *r* [pencil] 'Pittosporum tenuifolium' [unknown]; col. engraving 1985 *BF*: pl. 412.

NZ1/12 **Pittosporum ralphii** Kirk, *Trans. Proc. N.Z. Inst.* **3**: 161 (1871).

Specimen: Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 75–76, 105 '[[Drospyroides crassifolia]] Pittosporum crassifolium'; Solander, D. Slip Catalogue **VI**: 527–530.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Leaves are broader without the middle, & from thence go straight to their base. The [[Calyx]] Petala are a little pointed' [unknown]; 'the flowers a very dark crimson stamina yellow the calyx cottony whitish green' [SP]; '49' [unknown]; 'Pittospermum crassifolium' [unknown]. 525×355/430.

Finished drawing: watercolours *r* [ink] 'James Miller Pinx^{t}: 1774.'; *v* [pencil] 'Pittospormum crassifolium' [unknown]. 520×355/435.

Copper plate: [CW]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/119. 460×295/435; engraving proof *r* [pencil] 'Ch. White' [unknown]; 'Pittosporum crassifolium' [unknown]; col. engraving 1985 *BF*: pl. 413.

NZ1/13 **Pittosporum cornifolium** Cunningham ex Hooker, *Curtis's bot. Mag.* **59**: t. 3161 (1832).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 115 '[[Laureoloides]] Pittosporoides Verticillata'; Solander, D. Slip Catalogue **VI**: 533g–533i.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Pittosporum' [unknown]; *v* 'Pittosporoides verticillata' [unknown]. 520×350/420. Bacstrom, S. Ms.: 2.

NZ1/14 **Pittosporum umbellatum** Banks & Solander ex Gaertner, *Fruct. sem. pl.* **I**: 286, t. 59, f. 7 (1788).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 198–199 '[[Laureoloides]] Pittosporoides umbellata'; Solander, D. Slip Catalogue **VI**: 533c–533e.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Pittosporoides' [unknown]. 525×350/395. Bacstrom, S. Ms.: 2.

CARYOPHYLLACEAE

NZ1/15 **Colobanthus apetalus** (Labillardière) Druce, *Rep. botl Soc. Exch. Club Br. Isl.* **4**, suppl. 2: 616 (1917).

Specimen: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 243* '[[Spergula muscosa]] Stellaria uniflora'; Solander, D. Slip Catalogue **XI**: 43–45.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the leaves grass green growing pale toward the base the Peduncles white the capsula & flower green' [SP]; '81' [unknown]; 'Stellaria uniflora' [unknown]; [ink] 'Totarra nue' [JB]. 285×235/50.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder Pinx^t. 1777.'; [pencil] 'Stellaria uniflora' [unknown]; *v* 'Totaranue' [unknown]. 530×350/60.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 19/453. 460×295/60; engraving proof *r* [pencil] 'Stellaria uniflora' [unknown]; col. engraving 1985 *BF*: pl. 414.

NZ1/16 **STELLARIA PARVIFLORA** Banks & Solander ex Hooker f., *Fl. nov.-zel.* (1): 25 (1852).

SPECIMEN: Tegadu Bay, Totara nui (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 64, **2**: 266–267 '[[Arenaria apetala]] Stellaria parviflora'; Solander, D. Slip. Catalogue **XI**: 35–38.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves a fresh green the stalks stain'd w^t purple the germen white.' [SP]; '82' [unknown]; 'Stellaria parviflora' [unknown]; [ink] 'Tegadu' [JB]. 360×260/100.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder Pinx^t. 1777 [?]'; [pencil] 'The leaves not Quite so Broad & to Die off More (as of Bottom leaves' [unknown]; 'Stellaria parviflora' [unknown]; *v* 'Tegadu' [unknown]; 'Stellaria [?] parviflora' [unknown]. 525×355/115.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 20/479. 455×295/110; engraving proof *r* [pencil] 'Stellaria parviflora' [unknown]; col. engraving 1985 *BF*: pl. 415.

NZ1/17 **SPERGULARIA MEDIA** (Linnaeus) C. Presl, *Fl. sicul.*: 161 (1826).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 240*–241* 'Arenaria pentandra'; Solander, D. Slip Catalogue **XI**: 55–60.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'alternate' [unknown]; *v* '80' [unknown]; 'arenaria pentendra' [unknown]; [ink] 'Totarra nue' [JB]; 'Totarra nue' [JB]. 355×265/270.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder Pinx^t. 1777'; [pencil] 'Arenaria pentandra' [unknown]; *v* [pencil] 'Totara nue' [unknown]. 525×355/265.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 19/454. 455×295/265; engraving proof *r* [pencil] 'Arenaria pentandra' [unknown]; col. engraving 1985 *BF*: pl. 416.

GUTTIFERAE

NZ1/18 **Hypericum gramineum** G. Forster, *Fl. ins. austr.*: 53 (1786).

Specimen: 2 sheets, 1 – Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 255–256 'Hypericum aureum'; Solander, D. Slip Catalogue **XV**: 669–671.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Cax Red' [unknown]; 'Stalk 4 Square' [SP]; *v* '118' [unknown]; '48' [unknown]; 'Hypericum aureum' [unknown]; [ink] 'Totarra nue' [JB]. 365×265/250.

Finished drawing: watercolours [FPN[?]]. 525×350/255.

Copper plate: [RB]; Bacstrom, S. Ms.: 112; Brown, R. Ms.: 18/437. 460×300/255; engraving proof *r* [pencil] 'Hypericum aureum' [unknown]; col. engraving 1985 *BF*: pl. 417.

TILIACEAE

NZ1/19 **Entelea arborescens** R. Brown ex Sims, *Curtis's bot. Mag.* **51**: t. 2480 (1824).

Specimen: 2 sheets, 1-Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 60–61 '[[Eleocarpus]] Sloanea latifolia Corchorus sloanoides'; Solander, D. Slip Catalogue **XII**: 449–454.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Caps[?]6-room' '8 flor[?]' [SP]; *v* 'the leaves a fresh green vein'd w^t paler the under side of the leaves more Glaucus w^t pale high veins the flower white calyx & peduncles downy white with a cast of Green. the stamina yellow The capsulae green' [SP]; '102' [unknown]; 'Corchorus sloanoides' [unknown]. 525×355/405.

Finished drawing: watercolours *r* [ink] 'Fred^k. Polydore Nodder. Pinx^t. 1776[?]'. 520×355/380; see Carr, D. J. [Ed.] 1983 pl. 102 p. 108; Sampson, F. B. 1985 pl. 1, col. pl.

Copper plate: [GS]; Bacstrom, S. Ms.: 90; Brown, R. Ms.: 25/616. 460×300/300; engraving proof *r* [pencil] 'Corchorus Sloanoides' [unknown]; col. engraving 1985 *BF*: pl. 418.

ELAEOCARPACEAE

NZ1/20 **Aristotelia serrata** (Forster & G. Forster) W. Oliver, *Trans. Proc. N.Z. Inst.* **53**: 365 (1921).

Specimen: Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 73–74 '[[Garcinoides]] Triphalia rubicunda'; Solander, D. Slip Catalogue **XII**: 369–372.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'yellow' 'Red' 'Bl[?]' [SP]; *v* 'The Racemi more subdivided, & their pedicelli opposite' [unknown]; 'the petala crimson the stile green the stigma pale red with [?]'

[SP]; '84' [unknown]; 'Triphalia rubicunda' [unknown]. 525×350/425.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. [?]'; [pencil] 'Elaeocarpus Dicera, Willd' [unknown]. 525×350/425; see Carr, D. J. [Ed.] 1983 pl. 103 p. 110, col. pl.

Copper plate: [DM, '1781']; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 29/717; [no engraving proof]; col. engraving 1985 *BF*: pl. 419.

NZ1/21 **Elaeocarpus dentatus** (Forster & G. H. Forster) Vahl, *Symb. bot.* **3**: 67 (1794).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 162–163, 167–168 'Elaeocarpus [[rigida]] stricta'; Solander, D. Slip Catalogue **XII**: 373–376.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '20 Anthera yellow stile green' [unknown]: *v* 'The corolla white, the calyx white with a cast of green – the stamina pale brown' [SP]; '100' [unknown]; 'Eleocarpus stricta' [unknown]. 530×350/435.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'; [pencil] 'ointed [?]' [SP]. 525×355/435; see Sampson, F. B. 1985 pl. 2, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 90; Brown, R. Ms.: 23/571. 460×300/430; engraving proof *r* [pencil] 'Elaeocarpus stricta' [unknown]; col. engraving 1985 *BF*: pl. 420.

GERANIACEAE

NZ1/22 **Geranium potentilloides** L'Héritier ex de Candolle, *Prodr.* **1**: 639 (1824) var. **potentilloides**.

Specimen: 2 sheets, 1-Tolaga Bay, Opoorage, Motu aro Island (isotype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 111, 122 'Geranium [[decumbens]] pallidiflorum'; Solander, D. Slip Catalogue **XIV**: 475–478.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Apices Laciniarum rounder & the lateral ones almost as long as the middle lacinia' [unknown]; 'The flowers white the stamina yellow the upper side of the leaves a deep yellow green below whitish the stalks ting'd with purple' [SP]; '115' [unknown]; 'Geranium patens pallidiflorum' [unknown]; [ink] 'Tolaga' [JB]. 285×225/145.

Finished drawing: watercolours. 520×350/200.

Copper plate: [DM]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 22/546. 455×295/195; engraving proof *r* [pencil] 'M'Kenzie engr.' [unknown]; 'Geranium pallidiflorum' [unknown]; see Sampson, F. B. 1985 pl. 6; col. engraving 1985 *BF*: pl. 421.

NZ1/23 **Geranium solanderi** Carolin, *Proc. Linn. Soc. N.S.W.* **89** (3): 350 (1964).

Specimen: 2 sheets, 1-Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro

Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 21–22 'Geranium [[compressum]] pilosum'; Solander, D. Slip Catalogue **XIV**: 467–470.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The coraicula calyces better expressed. The Colour of the corola more purplish – the ends of the foliorum blunt with a little point' [unknown]; 'the flowers reddish purple somewhat pale.' [SP]; '114' [unknown]; 'Geranium [[patulum]] pilosum' [unknown]; [ink] 'Motuaru' [JB]. 355×250/305.

Finished drawing: watercolours *r* 'Fred^{k} Polydore Nodder Pinx^{t} [?]'. 525×350/335.

Copper plate: [GS]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 20/494. 460×300/330; engraving proof *r* [pencil] 'G. Sibelius engr' [unknown]; 'Geranium pilosum' [unknown]; col. engraving 1985 *BF*: pl. 422.

NZ1/24 **PELARGONIUM INODORUM** Willdenow, *Hortus berol.* **I**: 34, t. 34 (1804).

Specimen: 2 sheets, 1-Teoneroa, Tegadu, Tolaga Bay, Opoorage, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 19–21 'Geranium [[umbellatum]] amoenum'; Solander, D. Slip Catalogue **XIV**: 461–466.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers a pale crimson the marks on the petala very deep [?] the leaves grass green rather pale, the capsulae and calyx pale green the stalk & petiola deeply ting'd w^{t} red' [SP]; '112' [unknown]; 'Geranium amoenum' [unknown]. 525×355/415.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} [?]'; [pencil] 'round' 'single lines' [unknown]. 525×350/415.

Copper plate: [GS]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 25/618. 460×300/415; engraving proof *r* [pencil] 'G Sibelius engr.' [unknown]; 'Geranium amoenum' [unknown]; col. engraving 1985 *BF*: pl. 423.

OXALIDACEAE

NZ1/25a **OXALIS PERENNANS** Haworth, *Miscel.*: 181 (1803).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 66 'Oxalis flaccida'; Solander, D. Slip Catalogue **XI**: 221–224.

Outline drawing: pencil outlines [SP]; *v* [pencil] '79' [unknown]; 'Oxalis flaccida' [unknown]; [ink] 'Tolaga' [JB]. 360×255/205.
Bacstrom, S. Ms.: 76.

NZ1/25b **OXALIS PERENNANS** Haworth, *Miscel.*: 181 (1803).

Specimen: see NZ1/25a.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 66 'Oxalis flaccida'; Solander, D. Slip Catalogue **XI**: 221–224.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil]; 'the leaves grass green w^{t} a many faded ones among them the lower part of the Stalks dark

red.' [SP]; '79' [unknown]; 'Oxalis flaccida' [unknown]; [ink] 'Taoneroa' [JB]. 290×225/95.
Bacstrom, S. Ms.: 76.

LINACEAE

NZ1/26 **Linum monogynum** G. Forster var. **grandiflorum** Banks & Solander ex Hooker f., *Fl. nov.-zel.* (1): 28 (1852).

Specimen: Totara nui (holotype).

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 340 [index entry only, no description] 'Linum monogynum grandiflorum B.'; Solander, D. Slip Catalogue **VIII**: 103–106.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white the leaves grass green somewhat glaucus.' [SP]; '31' [unknown]; 'Linum monogynum grandifl' [unknown]; [ink] 'Totarra nue' [JB]. 450×275/380.

Finished drawing: watercolours *r* [ink] 'James. Miller Pinxt'; *v* [pencil] '31' [unknown]; 'Linum monogynum grandiflora' [unknown]; 'Totarra nue' [unknown]. 505×345/400.
Bacstrom, S. Ms.: 42.

NZ1/27 **Linum monogynum** G. Forster var. **diffusum** Banks & Solander ex Hooker f., *Fl. nov.-zel.* (1): 28 (1852).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island (holotype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 62–63, **2**: 220 'Linum [[la' vigatum]] monogynum *α* diffusum'; Solander, D. Slip Catalogue **VIII**: 103–106.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The capsules round like the innermost' [unknown]; 'the leaves & calyx fresh green the stalk more yellow & paler the flowers white ting'd on the outside near the edge w^t blue the buds pale blue. the capsulae green the leaves rather more glaucus' [SP]; '30' [unknown]; 'Linum monogynum diffusum' [unknown]; [ink] 'Tegadu' [JB]. 360×260/240.
Bacstrom, S. Ms.: 42.

RUTACEAE

NZ1/28 **Melicope ternata** Forster & G. Forster, *Char. gen. pl.*: 56, t. 28 (1775).

Specimen: Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 85–86, 194 '[[Trichilioides tetracocca]] Entoganum lavigatum'; Solander, D. Slip Catalogue **IX**: 493–496.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flower white w^{t} a cast of green calyx & stile green the upper side of the leaves grass green faintly vein'd & very shining the under side much paler wt fine veins of dark green, the capsulae pale brown.' [SP]; '73' [unknown]; 'Enteganum lavigatum' [unknown]. 525×355/385.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t} 1775.'; *v* [pencil] 'Enteganum lavigatum' [unknown]. 520×355/415.

Copper plate: [JG]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 11/268. 465×295/415; engraving proof *r* [pencil] 'Enteganum lavigatum' [unknown]; col. engraving 1986 *BF*: pl. 424.

MELIACEAE

NZ1/29 **Dysoxylum spectabile** (G. Forster) Hooker f., *Handb. N. Zeal. fl.*: 41 (1864).

Specimen: Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 223–224, 248*, 304–305, 307 '[[Juglandifolia]] Trichilia cauliflora'; Solander, D. Slip Catalogue **X**: 435–440.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The fruit a very pale green.' [SP]; '76' [unknown]; 'Trichila cauliflora' [unknown]. 525×350/405.

Finished drawing: watercolours *r* [ink]; 'Fred^{k} Polydore Nodder Pinx^{t} [?]'. 525×350/415; see Carr, D. J. [Ed.] 1983 pl. 104 p. 111, col. pl.; Adams, B. 1986 p.78 col. pl.

Copper plate: [GS]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 20/478. 460×300/455; engraving proof *r* [pencil] 'G. Sibelius' 'Trichilia cauliflora' [unknown]; col. engraving 1986 *BF*: pl. 425.

ICACINACEAE

NZ1/30 **Pennantia corymbosa** Forster & G. Forster, *Char. gen. pl.*: 134, t. 67 (1775).

Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 252* '[[Trophioides cymosa]] Meristoides paniculata'; Solander, D. Slip Catalogue **XXI**: 515–516.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '58.' [unknown]; '[[Trophiodes cymosa]]' [unknown]; 'Meristoides paniculata' [unknown]; 'Pennantia corymbosa Forster' [unknown]. 525×355/420. Bacstrom, S. Ms.: 2.

RHAMNACEAE

NZ1/31 **DISCARIA TOUMATOU** Raoul, *Annls Sci. nat.*, sér. 3, **2**: 123 (1844).

SPECIMEN: Teoneroa, Totara nui, Motuhora Island.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 22–23 'Rhamn [[oides]] us [Spinosa] axillaris'; Solander, D. Slip Catalogue **VI**: 285–288.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Some of the Ramali should be made as long as the spines or longer cfr[?] Specimen' [unknown]; 'The flowers white the bottom on the outside green the spines & young stalks dark green the spines have their points faded the leaves a shining grass green the old stalks greenish gray' [SP]; '52' [unknown]; 'Rhamnus axillaris' [unknown]; '69 Rhamnoides spinosa' [unknown]; [ink] 'Taoneroa' [JB]. 455×270/375.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1774.'; *v* [pencil] 'Rhamnus axillaris' [unknown]. 520×350/385; see Carr, D. J. [Ed.] 1983 pl. 105 p. 112.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/117. 460×295/380; engraving proof *r* [pencil] 'Rhamnus axillaris' [unknown]; col. engraving 1986 *BF*: pl. 426.

SAPINDACEAE

NZ1/32 **ALECTRYON EXCELSUS** Gaertner, *Fruct. sem. pl.* **1**: 217, t. 46, f. 2 (1788).

SPECIMEN: Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 113–114 '[[Nucifera gibbosa]] Eunonymoides excelsa'; Solander, D. Slip Catalogue **XXI**: 507–509.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '25' [unknown]; '[[Nucifera gibbo]]' [unknown]; 'Euonymoides [[excelsa]] gibbosa' [unknown]. 525×350/426.
Bacstrom, S. Ms.: 2.

NZ1/33 **DODONAEA ANGUSTIFOLIA** Linnaeus f., *Suppl. pl.*: 218 (1782).

SPECIMEN: Tolaga Bay, Opoorage, Oohoorage, Motu aro Island.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 114–115, **2**: 220–221 'Dodonea viscosa *β* obtusata'; Solander, D. Slip Catalogue **IX**: 473–480.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the upper side of the leaves calyx & young stalks grass green vein'd with light green the underside more glaucus faintly vein'd with a darker the stiles red & stalks a grey green the acumen on the top of the leaves should be observed' [SP]; '23' [unknown] 'Dodonaea viscosa' [unknown]; [ink] 'Tolaga' [JB]. 460×275/370.

FINISHED DRAWING: watercolours *r* [ink] 'Tho^{s}. Burgis Pinx^{t}. 1776'. 505×325/420.

Bacstrom, S. Ms.: 60.

Notes: NZ1/34 was inadvertently missed out missed in the original numbering sequence.

CORYNOCARPACEAE

NZ1/35 **Corynocarpus laevigatus** Forster & G. Forster, *Char. gen. pl.*: 32, t. 16 (1775).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 25–27 '[[Sauvagesioides glabrata]] Merretia lucida'; Solander, D. Slip Catalogue **VI**: 723–726.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'when the flowers are opend the racemi are broader or more spread' [unknown]; 'the petalae of the flower white. the fruit a shining grass green the Peduncli pale tawny brown.' [SP]; '53' [unknown]; 'Merretia lucida' [unknown]. 525×355/410.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinxt 1774:'; *v* [pencil] 'Merretia lucida' [unknown]. 520×350/410; 1 sheet of anatomical drawings is pasted onto Miller's drawing: pen and ink wash *r* [pencil] 'Fructification of the Merretia lucida' [JFM[?]]. 70×200/20.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/116. 460×295/405; engraving proof *r* [pencil] 'Merretia lucida' [unknown]; col. engraving 1986 *BF*: pl. 427.

MALVACEAE

NZ1/36 **Plagianthus divaricatus** Forster & G. Forster, *Char. gen. pl.*: 86, t. 43 (1775).

Specimen: Teoneroa, Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 10, 190–191 '[[Waltheria microphylla]] Connarus fascicularis [?]'; Solander, D. Slip Catalogue **XIV**: 531–533.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The calyx of a dull blackish purple the petals white the leaves grass green the stalk reddish brown the capsulae pale green' [SP]; '112' [unknown]; 'Connarus fasciculatus' [unknown]; [ink] 'Taoneroa' [JB]. 360×260/285.

Finished drawing: watercolours. 520×355/300.

Copper plate: [GS]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 21/514. 460×360/300; engraving proof *r* [pencil] 'Connarus fasciculatus' [unknown]; col. engraving 1986 *BF*: pl. 428.

LEGUMINOSAE

NZ1/37 **Carmichaelia solandri** Simpson, *Trans. Proc. R. Soc. N.Z.* **75**: 253 (1945).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 36–37, 178–179, 185 'Genista [[Spartium]] compressa [[m]]'; Solander, D. Slip Catalogue **XV**: 83–87.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the capsulae dirty brown the seeds orange colour'd' [SP]; '55' [unknown] 'Genista compressa' [unknown]; [ink] 'Opoorage' [JB]. 370×270/315.

Finished drawing: watercolours. 525×350/310.

Copper plate: [GS]; Bacstrom, S. Ms.: 106; Brown, R. Ms.: 21/518. 460×295/345; engraving proof *r* [pencil] 'Genista compressa' [unknown]; see Sampson, F. B. 1985 pl. 7; col. engraving 1986 *BF*: pl. 429.

NZ1/38 **Sophora tetraptera** J. S. Miller, *Illustr. syst. sex. Linn.*, Additional plates: t. 1 (1780).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 1–3 'Sophora [[grandiflora]] tetraptera'; Solander, D. Slip Catalogue **X**: 261–266; 1973 *CF*: pl. 9 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers yellow the capsules of a greenish downy Orange the buds greenish yellow, the carina + aloe of a paler yellow than the vexillum' [SP]; '116' [unknown]; 'Sophora tetraptera' [unknown]; [ink] 'Taoneroa' [JB]. 435×270/355.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} [?]'. 520×350/455.

Copper plate: [GS]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 22/536. 460×300/430; engraving proof *r* [pencil] 'Sophora tetraptera' [unknown]; engraving 1973 *CF*: pl. 9; col. engraving 1986 *BF*: pl. 430.

NZ1/39 **Sophora microphylla** Aiton, *Hort. kew.* **2**: 43 (1789).

Specimen: 2 sheets, Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 219–220 'Sophora microphylla'; Solander, D. Slip Catalogue **X**: 267–269.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '117' [unknown]; 'Sophora microphylla' [unknown]; [ink] 'Motuaru' [JB]. 455×275/380.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1783'. 505×335/385; see Carr, D. J. [Ed.] 1983 pl. 106 p. 113.

Copper plate: [FPN]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 29/728. 460×300/380; engraving proof *r* [pencil] 'Sophora microphyla' [unknown]; 'G^{d}.

Sibelius' [unknown]; col. engraving 1986 *BF*: pl. 431.

Notes: the engraving proof has Sibelius's name but the Brown catalogue has Nodder's.

NZ1/40 Clianthus puniceus (G. Don) Banks & Solander ex Lindley, *Bot. Reg.* **21**: t. 1775 (1836).

Specimen: Tegadu Bay, Tolaga Bay, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 234–235 '[[Clitoriodes conspicua]] Clianthus puniceus'; Solander, D. Slip Catalogue **XV**: 251–255.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The capsulae a bright yellow green' [SP]; '118' [unknown]; 'Clianthus puniceus' [unknown]. 525×350/440.

Finished drawing: watercolours *r* [pencil] 'obtuse' [unknown]. 525×350/465; see Beaglehole, J. C. 1962 **1**: pl. IX, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 21/519. 460×295/455; engraving proof *r* [pencil] 'Clianthus puniceus' [unknown]; col. engraving 1986 *BF*: pl. 432.

ROSACEAE

NZ1/41 Rubus australis G. Forster, *Fl. ins. austr.*: 40 (1786).

Specimen: 2 sheets, 1 – Oohoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 202–203 'Rubus australis'; Solander, D. Slip Catalogue **XII**: 127–129.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Stalk made longer so all the racemi may be axillary, & those made more compounded with more side flowers.' [unknown]; '95' [unknown]; 'Rubus australis' [unknown]; [ink] 'Oouhoorage' [JB]. 460×280/315.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} 177[?]'; [pencil] 'Petala narrower' 'obtuse & irregular' [unknown]. 525×350/365.

Copper plate: [GS]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 22/541. 460×300/355; engraving proof *r* [pencil] 'Rubus australis' [unknown]; col. engraving 1986 *BF*: pl. 433.

NZ1/42 Acaena anserinifolia (Forster & G. Forster) Druce, *Rep. botl Soc. Exch. Club Br. Isl.* **4**: 484 (1917).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 95–96 'Ancistrum [[diandrum]] decumbens'; Solander, D. Slip Catalogue **II**: 63–68.

Finished drawing: watercolours *r* [ink] 'Sydney Parkinson pinx^{t} 1770'; 'Ancistrum decumbens.' [SP]; *v* [pencil] 'The upperside of the leaves fresh green the underside cover'd with silvery hair the stalks dark cover'd with downy [?] hair the flowers.' [SP]; '11' [unknown]; 'Ancistrum decumbens' [unknown]; [ink] 'Tolaga'

[JB]. 360×255/230.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/18. 460×295/235; engraving proof *r* [pencil] 'Ancistrum decumbens' [unknown]; col. engraving 1986 *BF*: pl. 434.

CUNONIACEAE

NZ1/43 **WEINMANNIA RACEMOSA** Linnaeus f., *Suppl. pl.*: 227 (1781).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 247–248, 247* 'Weinmannia [[oppositifolia]] spatiosa'; Solander, D. Slip Catalogue **X**: 57–60.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Serraturae as at A' [unknown]; '71' [unknown]; 'Weinmannia spatiosa' [unknown]; [ink] 'Totarra nue' [JB]. 460×280/415.

FINISHED DRAWING: watercolours *r* [ink] 'John Cleveley Jun:^{r} Pinxt. 1775.'; *v* [pencil] 'Weinmannia spatiosa' [unknown]. 525×350/440.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 11/274. 465×295/440; engraving proof *r* [pencil] 'Weinmannia spatiosa' [unknown]; col. engraving 1986 *BF*: pl. 435.

NZ1/44 **WEINMANNIA SYLVICOLA** Banks & Solander ex Cunningham, *Ann. nat. Hist.* **2**: 357 (1839).

SPECIMEN: Opoorage, Totara nui (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 137–138 'Weinmannia [[spicigera]] sylvicola'; Solander, D. Slip Catalogue **X**: 65–68.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The corrolla & stamina white germen & stile pale crimson the half ripe capsulae pale dirty Crimson' [SP]; '72' [unknown]; 'Weinmannia sylvicola' [unknown]. 520×350/420.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt. 1775.'; *v* [pencil] 'Weinmannia syloicola' [unknown]. 515×345/440.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 16/379. 460×295/425; engraving proof *r* [pencil] 'Weinmannia sylvicola' [unknown]; col. engraving 1986 *BF*: pl. 436.

DROSERACEAE

NZ1/45 **DROSERA PELTATA** Thunberg subsp. AURICULATA (Backhouse ex Planchon) Conn, *J. Adelaide bot. gdns* **3**: 98 (1981).

SPECIMEN: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 6 'Drosera peltata'; Solander, D. Slip Catalogue **VIII**: 127–129.

FINISHED DRAWING: watercolours *r* [ink] 'Sydney Parkinson pinx^{t} 1770.';

'Drosera peltata.' [SP]; *v* [pencil] 'The whole plant a yellow green the flower light lilac colour' [SP]; '19' [unknown]; '117' [unknown]; 'Drosera peltata' [unknown]; [ink] 'Taoneroa' [JB]. 360×250/220.

Copper plate: [DM]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 6/145. 460×295/220; engraving proof *r* [pencil] 'Drosera peltata' [unknown]; col. engraving 1986 *BF*: pl. 437.

HALORAGIDACEAE

NZ1/46 **Gonocarpus montanus** (Hooker f.) Orchard, *Bull. Auckland Inst. Mus.* **10**: 172 (1975).

Specimen: Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 158, **2**: 236 '[[Valantioides humifusa]] Cercodia procumbens'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP); *v* [pencil] '70' [unknown]; '70' [unknown]; 'Cercodia procumbens' [unknown]; [ink] 'Opoorage' [JB]. 365×255/230.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}.? 1775.'; *v* [pencil] 'Cercodia procumbens – NZ.' [unknown]. 515×340/460.

Copper plate: [DM]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 12/279. 460×295/460; engraving proof *r* [pencil] 'Cercodia procumbens' [unknown]; col. engraving 1986 *BF*: pl. 438.

NZ1/47 **Haloragis erecta** (Banks ex Murray) Oken, *Allg. Naturgesch.* **3**: 1871 (1841).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 84, **2**: 203, 236–7, 242* '[[Valantioides tetragona]] Cercodia erecta'; [not in Solander, D. Slip Catalogue].

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The upper sides of the leaves pea green the underside . . . [?] glaucus . . . [?]'; '69' [unknown]; 'Cercodia Erecta' [unknown]; [ink] 'Tolaga.' [JB]. 445×265/375.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller Pinx^{t}. 1775.'.; *v* [pencil] 'Cercodia Erecta' 'Tolaga.' [unknown]. 525×350/375.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 12/278. 465×295/370; engraving proof *r* [pencil] 'Cercodia erecta' [unknown]; col. engraving 1986 *BF*: pl. 439.

MYRTACEAE

NZ1/48 **Lophomyrtus bullata** (Banks & Solander ex Cunningham) Burret, *Notizbl. bot. Gart. Mus. Berl.* **15**: 489 (1941).

Specimen: Opoorage, Oohoorage, Totara nui (syntype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 169–170, **2**: 207

'[[Metrosideros]] Myrtus bullata'; Solander, D. Slip Catalogue **XI**: 627–629.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the fruit deep red the small leaves are not so much bullated nor so red as the large ones.' [SP]; '96' [unknown]; 'Myrtus bullata' [unknown]; [ink] 'Opoorage.' [JB]. 465×270/400.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t [?]'; [pencil] 'the Petala obtuse' [unknown]. 525×345/405.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 86; Brown, R. Ms.: 19/462. 455×295/405; engraving proof *r* [pencil] 'Myrtus bullata' [unknown]; col. engraving 1986 *BF*: pl. 440.

NZ1/49 METROSIDEROS ALBIFLORA Banks & Solander ex Gaertner, *Fruct. sem. pl.* **I**: 172, t. 34, f. 11 (1788).

SPECIMEN: Opoorage (holotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 156–158, **2**: 243 'Metrosideros [[humilis]] albiflora'; Solander, D. Slip Catalogue **XI**: 549–552.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the petala Stamina & stile white. the full grown capulae drawn on this belong to the M[?]' [SP]; '94' [unknown]; 'Metrosideros albiflora' [unknown]; [ink] 'Opoorage' [JB]. 460×275/355.

FINISHED DRAWING: watercolours *r* [pencil] 'Metrosideros albiflora' [unknown]. 525×345/465.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 17/416. 465×295/415; engraving proof *r* [pencil] 'Metrosideros albiflora' [unknown]; col. engraving 1986 *BF*: pl. 441; see Adams, B. 1986 col. pl.

NZ1/50 METROSIDEROS DIFFUSA (G. Forster) Smith, *Trans. Linn. Soc. Lond.* **3**: 268 (1797).

SPECIMEN: 2 sheets, 1 – Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 170–172, **2**: 248–249 'Metrosideros myrtifolia'; Solander, D. Slip Catalogue **XI**: 553–555.

OUTLINE DRAWING [2]: pencil outlines with colour references [SP]; 1 – *v* [pencil] '88' [unknown]; 'Metrosideros myrtifolia' [unknown]; [ink] 'Opoorage' [JB]. 360×250/315; 2 – *r* [pencil] 'Metrosideros myrtifolia' [unknown]. 520×330/465.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t. 1782'. 505×340/330.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 26/632. 460×295/330; engraving proof *r* [pencil] 'Metrosideros myrtifolia' [unknown]; col. engraving 1986 *BF*: pl. 442.

NZ1/51 METROSIDEROS PERFORATA (Forster & G. Forster) A. Richard, *Voy. Astrolabe, Botanique* (1): 334 (1832).

SPECIMEN: Tolaga Bay, Opoorage, Oohoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 123–124, 159, **2**: 245*, 248 '[[Andromedoides myrtifolia]] Metrosideros scandens'; Solander, D. Slip Catalogue **XI**: 557–560.

Outline Drawing [2]: pencil outlines with colour references [SP]; 1 – *v* [pencil] 'The buds white ting'd with Green the stamina white the base of the flower yellow green ting'd w^{t} red on the edge.' [SP]; '89' [unknown]; 'Metrosideros scandens' [unknown]; [ink] 'Tolaga' [JB]. 365×250/300; 2 – *r* [pencil] 'Metrosideros scandens' [unknown]. 510×325/320.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1782'. 505×340/280.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 29/722 [?]. 460×295/280; engraving proof; col. engraving 1986 *BF*: pl. 443.

Notes: NZ1 52 and 53 were inadvertently missed out in the original numbering sequence.

NZ1/54 **LEPTOSPERMUM SCOPARIUM** Forster & G. Forster, *Char. gen. pl.*: 72, t. 36, figs. f–l (1775).

Specimen: 2 sheets, New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 3–4 'Philadelphus parvifolius'; Systematic Index **2**: 330 'Philadelphus parvifolius *α* rigidus'; Solander, D. Slip Catalogue **XI**: 513–519.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '85' [unknown]; 'Philadelphus parvifolius rigidus' [unknown]; 'Taonero' [JB]. 465×270/370.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder [?]'. 525×345/430; see Beaglehole, J.C. 1962 **2**: pl. 11.
Bacstrom, S. Ms.: 84.

NZ1/55 **LEPTOSPERMUM ERICOIDES** A. Richard, *Voy. Astrolabe, Botanique* (1): 338 (1832).

Specimen: 3 sheets, New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 3–4 'Philadelphus parvifolius *α* aromaticus'; Solander, D. Slip Catalogue **XI**: 513–519.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The colour the same as those of the other Philadelphus' [SP]; '86' [unknown]; 'Philadelphus parvifolius aromaticu' [unknown]; [ink] 'Motuaru' [JB]. 465×270/355.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} [?]' 525×345/370.

Copper plate: [DM]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 26/633. 460×300/365; engraving proof *r* [pencil] 'Philadelphus aromaticus' [unknown]; col. engraving 1986 *BF*: pl. 444.

NZ1/56 **METROSIDEROS EXCELSA** Banks & Solander ex Gaertner, *Fruct. sem. pl.* **1**: 172, t. 34, f. 8 (1788).

SPECIMEN: Opoorage, Totara nui (holotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 159–160, 173–175, 197–198 'Metrosideros excelsa'; Solander, D. Slip Catalogue **XI**: 527–530; 1973 *CF*: pl. 10 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'Branch with capsula & the ractus corymbi grown out in young branches' [unknown]; '87.' [unknown]; 'Metrosideros excelsa' [unknown]. 520×345/355.

FINISHED DRAWING: watercolours *r* [pencil] 'Metrosideros excelsa' [unknown]. 510×355/450.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 18/428. 460×295/415; engraving proof *r* [pencil] 'G. Smith Engr' [unknown]; 'Metrosideros excelsa' [unknown]; engraving 1973 *CF*: pl. 10; col. engraving 1986 *BF*: pl. 445.

NZ1/57 **METROSIDEROS UMBELLATA** Cavanilles, *Icon.* **4** (1): 20, t. 337 (1797).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 238*–239*, 250 'Metrosideros lucida'; Solander, D. Slip Catalogue **XI**: 537–541.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The florescent more plain' [unknown]; jaurulosa [?] 'than the original' 'binata[?]'; 'villosus' [SP]; '93' [unknown]; 'Metrosideros lucida' [unknown]; [ink] 'Totarra nue' [JB]. 460×270/385.

FINISHED DRAWING: watercolours *r* [pencil] 'Metrosideros lucida' [unknown]. 525×340/400; see Carr, D. J. [Ed.] 1983 pl. 107 p. 114, col. pl.

COPPER PLATE: [DM]; Bacstrom. S. Ms.: 84; Brown, R. Ms.: 17/417. 460×295/395; engraving proof *r* [pencil] 'Metrosideros lucida' [unknown]; col. engraving 1986 *BF*: pl. 446.

NZ1/58 **METROSIDEROS FULGENS** Banks & Solander ex Gaertner, *Fruct. sem. pl.* **1**: 172, t. 34, f. 7 (1788).

SPECIMEN: New Zealand (holotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 243, 249–250 'Metrosideros [[rubicunda]] [[pumilis]] fulgida'; Solander, D. Slip Catalogue **XI**: 543–547.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The full grown capsulae of this is drawn on the Metro/humilis' [SP]; '90' [unknown]; 'Metrosideros fulgens' [unknown]; [ink] 'Totarra nue' [JB]. 460×270/370.

FINISHED DRAWING: watercolours *r* [pencil] 'Metrosideros fulgens' [unknown]; *v* 'Totara nue' [unknown]. 525×345/395.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 17/413. 460×295/385; engraving proof *r* [pencil] 'Metrosideros fulgens' [unknown]; col. engraving 1986 *BF*: pl. 447.

ONAGRACEAE

NZ1/59 **EPILOBIUM PALLIDIFLORUM** Solander ex Cunningham, *Ann. nat. Hist.* **3**: 34 (1839).

SPECIMEN: 3 sheets, Opoorage (lectotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 152 'Epilobium pallidiflorum'; Solander, D. Slip Catalogue **IX**: 405–406.

FINISHED DRAWING: watercolours *r* [ink] 'Sydney Parkinson pinx^{t} 1770'; 'Epilobium pallidiflorum' [SP]; *v* [pencil] '65' [unknown]; 'Epilobium pallidiflorum' [unknown]; [ink] 'Opoorage' [JB]. 460×280/380.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 10/229. 460×295/375; engraving proof *r* [pencil] 'Epilobium pallidiflorum' [unknown]; col. engraving 1986 *BF*: pl. 448.

NZ1/60 **EPILOBIUM BILLARDIERIANUM** Seringe ex de Candolle, *Prodr.* **3**: 41 (1828) subsp. BILLARDIERIANUM.

SPECIMEN: Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 320 [index entry only, no description] 'Epilobium [[brevifolium]] rubricaule'; Solander, D. Slip Catalogue **IX**: 415–416.

FINISHED DRAWING: watercolours *r* [ink] 'Sydney Parkinson pinx^{t} 1770'; 'Epilobium rubricaule.' [SP]; *v* [pencil] '66' [unknown]; 'Epilobium rubrica' [unknown]; [ink] 'Opoorage' [JB]. 460×285/375.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 8/177. 460×295/375; engraving proof *r* [pencil] 'Epilobium rubricaule' [unknown]; col. engraving 1986 *BF*: pl. 449.

NZ1/61 **EPILOBIUM GLABELLUM** G. Forster, *Fl. ins. austr.*: 27 (1786).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 263 'Epilobium glabellum'; Solander, D. Slip Catalogue **IX**: 419–421.

FINISHED DRAWING: watercolours *r* [ink] 'Sydney Parkinson pinx^{t} 1771'; 'Epilobium glabellum' [SP]; *v* [pencil] '67' [unknown]; 'Epilobium glabellum' [unknown]; [ink] 'Totarra nue' [JB]. 360×250/245.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 8/193. 460×295/240; engraving proof *r* [pencil] 'Epilobium glabellum' [unknown]; col. engraving 1986 *BF*: pl. 450.

NZ1/62 **EPILOBIUM NUMMULARIIFOLIUM** R. Cunningham ex Cunningham, *Ann. nat. Hist.* **3**: 31 (1839).

SPECIMEN: Tegadu Bay, Tolaga Bay, Motu aro Island (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 67 'Epilobium [[rotundifolium]] pendulum'; Solander, D. Slip Catalogue **IX**: 429–431.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'flower white' [SP]; '64' [unknown]; 'Epilobium pendulum' [unknown]; [ink] 'Tegadu' [JB]. 260×380/115.

FINISHED DRAWING: watercolours *r* [ink] 'Jn^o^ Cleveley Jun^r^ Pinxt 1775.'; *v* [pencil] 'Epilobium pendulum' [unknown]. 525×350/120.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 11/267. 465×295/115; engraving proof *r* [pencil] 'Epilobium pendulum' [unknown]; col. engraving 1986 *BF*: pl. 451.

NZ1/63 FUCHSIA EXCORTICATA (Forster & G. Forster) Linnaeus f., *Suppl. pl*: 217 (1781).

SPECIMEN: Tegadu Bay, Tolaga Bay, Motu aro Island, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 79–80, **2**: 267 '[[Baekeoides elegans]] Agapanthus calyciflorus'; Solander, D. Slip Catalogue **IX**: 449–453.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the calyx deep Crimson on the inside as are also the filaments & stile the top of which is yellow The petals dark purple the outside of the calyx paler & ting'd wt green the anthera yellow ting'd w^t red the upper part of the leaves dark grass green The under part white wt a cast of green & vein'd wt green the capsula green the stalk gray green' [SP]; '68' [unknown]; 'Agapanthus calycifl' [unknown]; 'calyciflorus' [unknown]. 525×350/455; see Beaglehole, J. C. 1962 **1**: pl. X, col. pl.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinxt 1775.'; *v* [pencil] 'Agapanthus calyciflorus' 'Tegadu' [unknown]. 525×355/470.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 11/273. 460×295/455; engraving proof *r* [pencil] 'Fuchsia discolor' [unknown]; col. engraving 1986 *BF*: pl. 452.

CORIARIACEAE

NZ1/64 CORIARIA ARBOREA W. L. Lindsay, *Contr. N.Z. Bot.*: 84 (1868).

SPECIMEN: 2 sheets. 1 – Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Oohoorage, Motu aro Island, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 10–11, **2**: 230 'Coriaria [[Suriana]] [[australis]] [[racemosa]] hermaphrodita'; Solander, D. Slip Catalogue **XX**: 381–386.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves a very shining dark green the underside paler hairy the veins ting'd w^t red' [SP]; '15' '6' [unknown]; '[[Suriana racemosa]]' [unknown]; 'Coriaria hermaphrodita' [unknown]. 525×355/455.
Bacstrom, S. Ms.: 134.

PASSIFLORACEAE

NZ2/64a **Passiflora tetrandra** Banks & Solander ex de Candolle, *Prodr.* **3**: 323 (1828).

Specimen: 2 sheets. 1 – Opoorage, Oohoorage (holotype).

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 163–165 'Passiflora tetrandra'; Solander, D. Slip Catalogue **XIV**: 349–352; 1973 *CF*: pl. 11 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Filaments more yellow & the anthera oranger. The styles in the Fructis – a little longer' [SP]. 525×350/445.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t [?]'. 525×350/440; see Carr, D. J. [Ed.] 1983 pl. 108 p. 115, col. pl.

Copper plate: [GS]; Bacstrom, S. Ms.: 124; Brown, R. Ms.: 24/588. 460×300/440; engraving proof *r* [pencil] 'Passiflora tetrandra' [unknown]; see Stearn, W. T. 1968 *Endeavour* **XXVII**: 8, fig. 8; engraving 1973 *CF*: pl. 11; col. engraving 1986 *BF*: pl. 453.

AÏZOACEAE

NZ2/64b **Disphyma australe** (Aiton) J. Black emend. Chinnock, *N.Z. Jl Bot.* **9** (2): 334, figs. 1–4, 7, 13, 16 (1971).

Specimen: *.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 131–133 'Mesembryanthemum australe'; Solander, D. Slip Catalogue **XII**: 53–56.

Outline drawing: pencil outlines with colour references [SP]. 530×350/430. Bacstrom, S. Ms.: [[86]], 87.

HYDROCOTYLACEAE

NZ2/64c **Hydrocotyle americana** Linnaeus var. HETEROMERIA (A. Richard) Kirk, *Stud. fl. New Zealand*: 188 (1899).

Specimen: 2 sheets, Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 184, 'Hydrocotyle [[media]] glabrata'; Solander, D. Slip Catalogue **VII**: 509–510.

Finished drawing: watercolours *r* [ink] 'Sydney Parkinson pinx^t 1770.'; 'Hydrocotyle glabrata.' [SP]; *v* [pencil] '190' [unknown]; '23' [unknown]; 'Hydrocotyle glabr' [unknown]; [ink] 'Opoorage' [JB]. 225×330/130. Bacstrom, S. Ms.: 40.

NZ2/65 HYDROCOTYLE MOSCHATA G. Forster, *Fl. ins. austr.*: 22 (1786).

SPECIMEN: Tegadu Bay, Tolaga Bay, Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 107–109 'Hydrocotyle capitata'; Solander, D. Slip Catalogue **VII**: 505–507.

FINISHED DRAWING: watercolours *r* [ink] 'Sydney Parkinson pinx^{t} 1770.'; 'Hydrocotyle capitata.' [SP]; *v* [pencil] '26' [unknown]; 'the leaves fresh green with red at the edge [?] . . . upperside of the capsula green' [SP]; 'Hydrocotyle capitata' [unknown]; [ink] 'Tegadu' [JB]. 285×220/70.
Bacstrom, S. Ms.: 40.

NZ2/66 HYDROCOTYLE MOSCHATA G. Forster, *Fl. ins. austr.*: 22 (1786).

SPECIMEN: see NZ 2/65.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 107–109 'Hydrocotyle capitata'; Solander, D. Slip Catalogue **VII**: 505–507.

FINISHED DRAWING: watercolours *r* [ink] 'Sydney Parkinson pinx^{t}: 1770.'; 'Hydrocotyle capitata.' [SP]; *v* [pencil] 'the flowers red' [SP]; '26' [unknown] ;B 'Hydrocotyle capitata' [unknown]; [ink] 'Tolaga' [JB]. 260×335/145.
Bacstrom, S. Ms.: 40.

NZ2/66a HYDROCOTYLE AMERICANA Linnaeus var. HETEROMERIA (A. Richard) Kirk, *Stud. fl. New Zealand*: 188 (1899).

SPECIMEN: see NZ2/64c.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 184 'Hydrocotyle [[media]] glabrata', **I**: 60, 143 'Hydrocotyle [[americana]] glabrata'; Solander, D. Slip Catalogue **VII**: 509–510.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'whole plant is a light herbaceous green' [SP]; '23' [unknown]; 'Hydrocotyle glabra' [unknown]; [ink] 'Opoorage' [JB]. 255×330/155.

FINISHED DRAWING: watercolours *r* [ink] 'John. Frederick Miller pinx^{t} 1774'; *v* [pencil] 'Hydrocotyle glabrata' [unknown]. 350×520/165.
Bacstrom, S. Ms.: 40.

NZ2/67 HYDROCOTYLE NOVAE-ZELANDIAE de Candolle, *Prodr.* **4**: 67 (1830).

SPECIMEN: Tegadu Bay, Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 109–110, 165 'Hydrocotyle [[villosa]] pilosa'; Solander, D. Slip Catalogue **VII**; 501–503.

FINISHED DRAWING: watercolours *r* [ink] 'Hydrocotyle villosa.' [SP]; 'Sydney Parkinson pinx^{t} 1770.'; *v* [pencil] 'Upper side of the leaves a yellow green vein'd with darker the under side [?] green . . . [?] green . . . [?] white w^{t} . . . [?] white . . . [?]' [SP]; '25' [unknown]; 'Hydrocotyle villos' [unknown]; [ink] 'Opoorage' [JB]. 255×320/135.

Copper plate: [GS]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 9/213. 460×295/135; engraving proof *r* [pencil] 'Hydrocotile villosa' [unknown]; col. engraving 1986 *BF*: pl. 454.

NZ2/68 **Centella uniflora** (Colenso) Nannfeldt, *Svensk bot. Tidskr.* **18**(3): 413 (1924).

Specimen: Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 216–217, 235–236 'Hydrocotyle indivisa'; Solander, D. Slip Catalogue **vii**: 513–516.

Finished drawing: watercolours *r* [ink] 'Hydrocotyle indivisa.' [SP]; 'Sydney Parkinson pinx^{t} 1770'; *v* [pencil] '. . . [?] green anthera black . . . [?] ting'd w^{t} purple at the edge' [SP]; '22' [unknown]; 'Hydrocotyle indivisa' [unknown]; [ink] 'Motuaru' [JB]. 235×295/75.

Copper plate: [D]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 6/136. 460×295/70; engraving proof *r* [pencil] 'Hydrocotile indivisa' [unknown]; col. engraving 1986 *BF*: pl. 455.

NZ2/69 **Schizeilema trifoliolatum** (Hooker f.) Domin in Engler, *Bot. Jb.* **40**: 578 (1908).

Specimen: Totara nui (syntype).

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 287–288 'Hydrocotyle trifolia'; Solander, D. Slip Catalogue **vii**: 519–522.

Finished drawing: watercolours *r* [ink] 'Hydrocotyle trifolia.' [SP]; 'Sydney Parkinson pinx^{t} 1770.'; *v* [pencil] '. . . [?] of the . . . [?] whole plant . . . [?] grey' [SP]; '198' [unknown]; '24' [unknown]; 'Hydrocotyle trifolia' [unknown]; [ink] 'Totarra nue' [JB]. 255×315/80.

Copper plate: [D]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 6/137. 460×295/80; engraving proof *r* [pencil] 'Hydrocotile trifolia' [unknown]; col. engraving 1986 *BF*: pl. 456.

UMBELLIFERAE

NZ2/70 **Aciphylla squarrosa** Forster & G. Forster, *Char. gen. pl.*: 136, t. 68 (1775).

Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 294–296 'Laserpitium spinosissimum'; [not in Solander, D. Slip Catalogue]; 1973 *CF*: pl. 11a *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '55[?]' [unknown]; 'Laserpitium spinosissium.' [unknown]. 525×345/475.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller, pinx^{t}: 1772.'; 'Laserpitium spinosissimum.' [unknown]. 525×345/480; see Carr, D. J. [Ed.] 1983 pl. 109 p. 116.

Copper plate: [GS]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 6/138. 460×295/460; engraving proof *r* [pencil] 'Laserpitium spinosissimum'; engraving 1973 *CF*: pl. 11a; col. engraving 1986 *BF*: pl. 457.

NZ2/71 DAUCUS GLOCHIDIATUS (Labillardière) Fischer & C. Meyer in Fischer, C. Meyer & Avé-Lallemont, *Index sem. hort. petrop.* **9**, suppl. 2: 11 (1844).

SPECIMEN: Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island.

MANUSCRIPT: [not in Solander, D. Pl. Austral. (NZ)]; Solander, D. Slip Catalogue **VII**: 561–564 'Caucalis tenuifolia'; 1973 *CF*: pl. 12 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The Leaves narrower' [unknown]; 'N°. 48' [unknown]; 'Caucalis tenuifolia' [unknown]; 'tenuifolia' [unknown]; [ink] 'Tegadu' [JB]. 440×265/390.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t 1774.'; *v* [pencil] 'Caucalis touicifolia' [unknown]. 515×345/410.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 17/401. 460×295/405; engraving proof *r* [pencil] 'Caucalis tenuifolia' [unknown]; engraving 1973 *CF*: pl 12; col. engraving 1986 *BF*: pl. 458.

NZ2/72 APIUM PROSTRATUM Labillardière var. FILIFORME (A. Richard) Kirk, *Stud. fl. New Zealand*: 196 (1899).

SPECIMEN: 3 sheets, 1 – Opoorage, Oohoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 210–211 'Apium [[humile]] decumbens tenellum *β*'; Solander, D. Slip Catalogue **VII**: 695–700.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'To make the leaves that are simply ternated broader at their base' [unknown]; 'The whole plant fresh green the lower part of the stalks very pale' [SP]; '44' [unknown]; 'Apium decumbens tenellum' [unknown]; [ink] 'Oouhoorage' [JB]. 370×270/255.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller Pinx^t 1774'; *v* [pencil] 'Apium decumbens tenellum' [unknown]. 510×345/250.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 6/142. 460×295/250; engraving proof *r* [pencil] 'Apium decumbens tenellum' [unknown]; col. engraving 1986 *BF*: pl. 459.

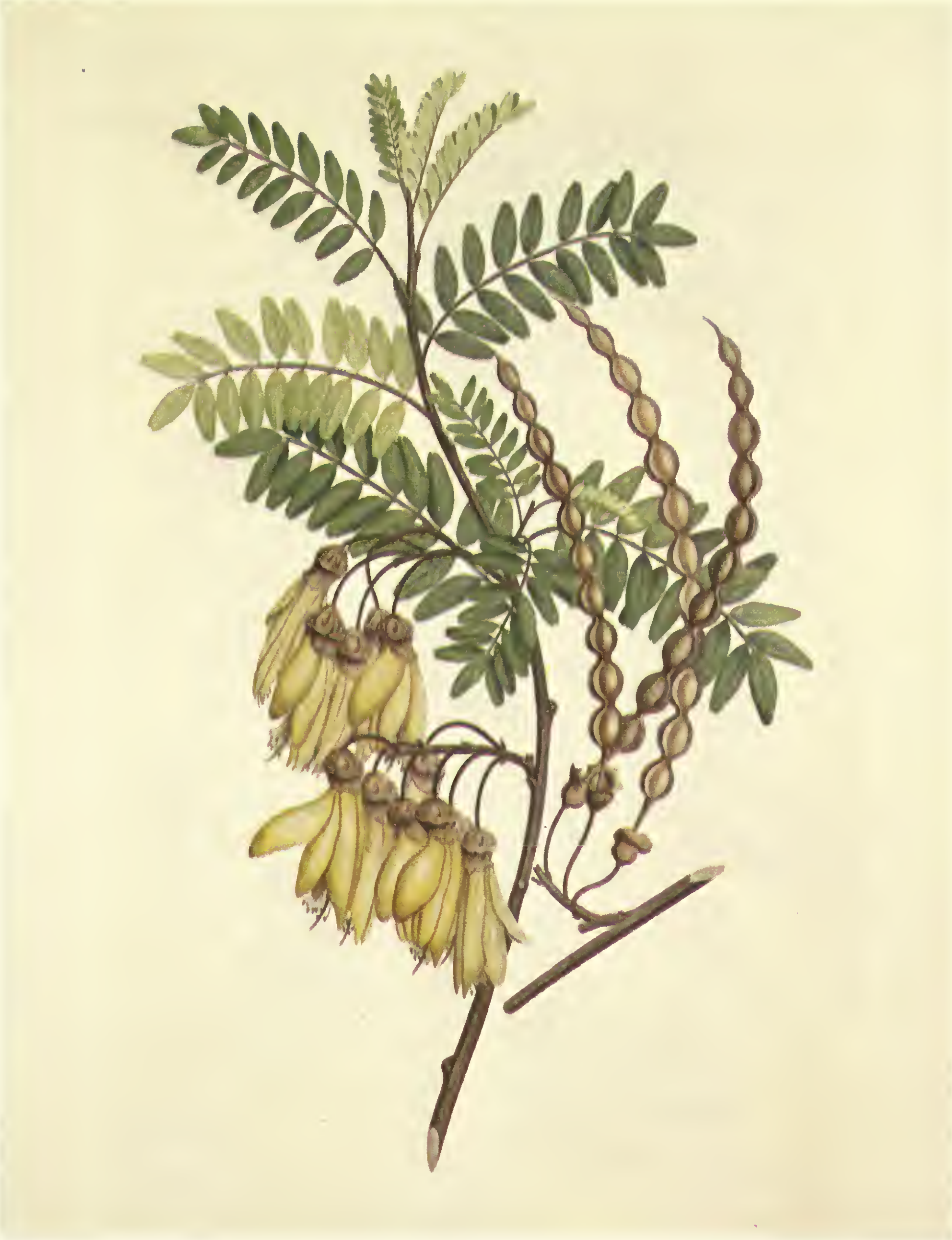
NZ2/73 APIUM PROSTRATUM Labillardière, *Nov. Holl. pl.* **1**: 76, t. 103 (1805) var. PROSTRATUM.

SPECIMEN: New Zealand.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 23–24 'Apium [[reptans]] decumbens *α* sapidum'; Solander, D. Slip Catalogue **VII**: 695–700.

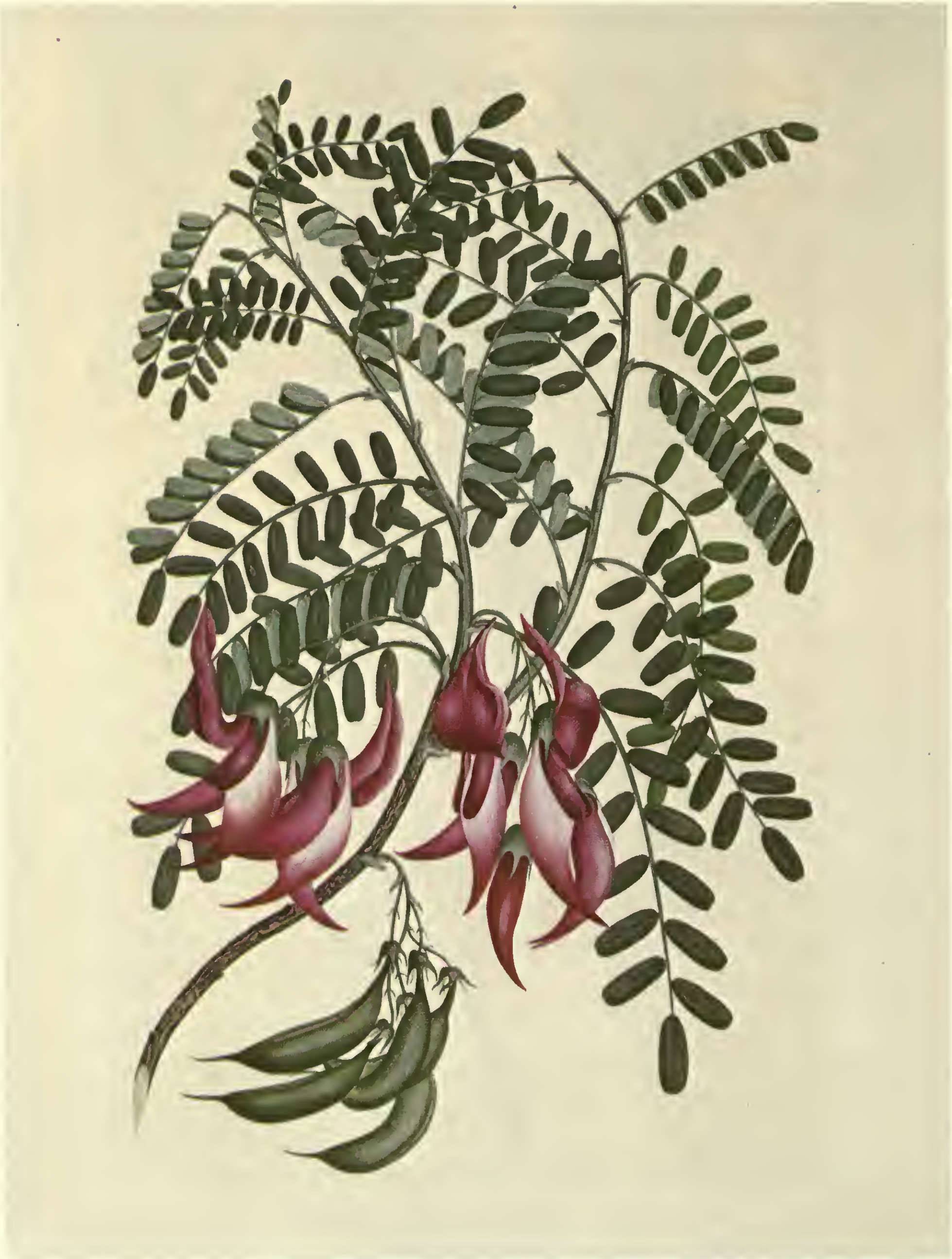
OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves the same colour as the common parsley grass green above & paler below. the stalks pale herbaceous green the flowers white.' [SP]; '44' [unknown]; 'Apium decumbens sapidum' [unknown]; 'N. Zealand' [unknown]; [ink] 'Taoneroa' [JB]. 285×440/230.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinx^t'; *v* [pencil] 'Apium decumbens sapidum' [unknown]. 345×515/235.



NZ1/38 *Sophora tetraptera*

[Plate 430 from *Banks' Florilegium*]
gathered Teoneroa, New Zealand, 8 October–11 October 1769
line engraving by Gerald Sibelius after Sydney Parkinson (1769) and Fredrick Polydore Nodder
460 × 300 mm



NZ1/40 *Clianthus puniceus*

[Plate 432 from ***Banks' Florilegium***]
gathered North Island, New Zealand, 8 October–4 December, 1769
line engraving by Daniel MacKenzie after Sydney Parkinson (1769)
460 × 295 mm

Copper plate: [JG]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 6/141. 485×295/350; engraving proof *r* [pencil] ‘Apium decumbens sapidum’ [unknown]; col. engraving 1986 *BF*: pl. 460.

NZ2/74 **Scandia rosaefolia** (Hooker) Dawson, *N.Z. Jl Bot.* **5** (3): 410 (1967).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 31–32, **2**: 238–239 ‘Ligusticum [[pinnatum]] aromaticum’; Solander, D. Slip Catalogue **VII**: 619–622.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘the lower leaves to made broader & more flowers introduced’ [unknown]; ‘the leaves a very bright fresh green vein’d w^{t} very pale green the stalk a pale green the back of the leaf pale vein’d w^{t} dark green’ [SP]; ‘32’ [unknown]; ‘192’ [unknown]; ‘Ligusticum aromaticum’ [unknown]; [ink] ‘Taoneroa’ [JB]. 455×275/390.

Finished drawing: watercolours *r* [ink] ‘John Frederick Miller pinx^{t}:. 1774’; *v* [pencil] ‘Ligusticum aromaticum.’ [unknown]. 525×345/425; see Carr, D. J. [Ed.] 1983 pl. 110 p. 117.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 6/140. 460×295/425; engraving proof *r* [pencil] ‘Ligusticum aromaticum’ [unknown]; col. engraving 1986 *BF*: pl. 461.

NZ2/75 **Gingidium montanum** Forster & G. Forster, *Char. gen. pl.*: 42, t. 21 (1775).

Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 256–258 ‘[[Heracleum]] Ligusticum anisatum’; Solander, D. Slip Catalogue **VII**: 613–617.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘43’ [unknown]; ‘Ligusticum anisatum’ [unknown]. 525×345/430.

Finished drawing: watercolours *r* [ink] ‘James Miller pinx^{t}. 1774’; *v* [pencil] ‘Ligusticum anisatum’ [unknown]. 525×345/435.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 6/139. 460×295/435; engraving proof *r* [pencil] ‘Ligusticum anisatum’ [unknown]; col. engraving 1986 *BF*: pl. 462.

ARALIACEAE

NZ2/76 **Pseudopanax lessonii** (de Candolle) C. Koch in C. Koch & Fintelmann, *Wochenschr.* **2**: 366 (1859).

Specimen: Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 180–181 ‘[[Araliastrum trifolium]] Aralia trifolia’; Solander, D. Slip Catalogue **VIII**: 43–45.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The buds green’ [SP]; ‘Aralia trifolia[?]’ [unknown]. 520×350/390.

Finished drawing: watercolours *r* [ink] ‘James Miller Pinx^{t}:’; *v* [pencil] ‘41’ ‘Aralia trifolia’ ‘Opoorage’ [unknown]. 515×350/385.

COPPER PLATE: [D]; Bacstrom, S. Ms.: 42; Brown, R. Ms.: 10/242. 460×295/410; engraving proof *r* [pencil] 'Aralia trifolia' [unknown]; 'Drazowa' [unknown]; col. engraving 1986 *BF*: pl. 463.

NZ2/77 **PSEUDOPANAX ARBOREUS** (Murray) Philipson, *N.Z. Jl Bot.* **3** (4): 338 (1965).

SPECIMEN: Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 98–100, **2**: 255*, 267–268 '[[Umbellifera arborescens]] Panax [[Stagaea]] [[gummifera]] arborea'; Solander, D. Slip Catalogue **XXI**: 417a–417f.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '. . . [?] lighter' [unknown]; *v* 'the vagina petiolarum better expressed in the sinus' [unknown]; 'the upperside of the leaves grass green w^{t} standing up veins the underside much paler green with small green veins the middle one being very pale the stalks a dirty green the capsulae peduncle the colour of ripe elder berries' [SP]; 'N° 15' [unknown]; 'Panax arborea' [unknown]. 525×345/390.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'. 520×345/375.

COPPER PLATE: [FPN]; Bacstrom, S. Ms.: 140; [not in Brown]. 460×300/390; engraving proof; col. engraving 1986 *BF*: pl. 464.

NZ2/78 **PSEUDOPANAX CRASSIFOLIUS** (Solander ex Cunningham) C. Koch in C. Koch & Fintelmann, *Wochenschr.* **2**: 366 (1859).

SPECIMEN: 3 sheets, 1 – Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 251–253 '[[Araliastrum simplicifolium]] Aralia crassifolia'; Solander, D. Slip Catalogue **VIII**: 39–42.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '42' [unknown]; 'Aralia crassifolia' [unknown]. 520×345/445.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1774.'; *v* [pencil] 'Aralia crassifolia' [unknown]. 510×345/445; see Beaglehole, J. C. 1962 **2**: pl. 15.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 42; Brown, R. Ms.: 6/143. 460×295/435; engraving proof *r* [pencil] 'Aralia crassifolia' [unknown]; col. engraving 1986 *BF*: pl. 465.

NZ2/79 **SCHEFFLERA DIGITATA** Forster & G. Forster, *Char. gen. pl.*: 46, t. 23 (1775).

SPECIMEN: 2 sheets, 1 – Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 246–247, 270, 306 '[[Araliastrum heptaphyllum]] Aralia polygama'; Solander, D. Slip Catalogue **VIII**: 47–53.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the buds stalks + petala very pale green the receptaculum pea green' [SP]; '57' [unknown]; 'Aralia[[strum heptaphyllum]] polygama' [unknown]. 525×350/460.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t}. 1774.'; *v* [pencil] 'Aralia polygama' [unknown]. 520×350/470; see Carr, D. J. [Ed.] 1983 pl. 111, p. 118, col. pl.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 42; Brown, R. Ms.: 10/243. 460×300/450; engraving proof *r* [pencil] 'Aralia polygama' [unknown]; col. engraving 1986 *BF*: pl. 466.

MONIMIACEAE

NZ2/80 **HEDYCARYA ARBOREA** Forster & G. Forster, *Char. gen. pl.*: 128, t. 64 (1775).

SPECIMEN: 2 sheets, 1 – Tegadu Bay, Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 66, 76–77 '[[Laurifolia dioica]] Coinonea uvarioides'; Solander, D. Slip Catalogue **XX**: 429–432.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the leaves grass green on the underside pale yellow green the flowers & foot stalks pale green the stamina white w^{t} a cast of green the stalks black green –' [SP]; '36' [unknown]; 'Cononea uvarioides' [unknown]. 450×285/365.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. 1780'; [pencil] 'NB. The fruits are pedunculated' 'too many' [unknown]. 525×350/375; see Carr, D. J. [Ed.] 1983 pl. 119 p. 126.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 26/650. 460×300/375; engraving proof *r* [pencil] 'Cononea uvarioides' [unknown]; col. engraving 1986 *BF*: pl. 467.

CORNACEAE

NZ2/81 **GRISELINIA LUCIDA** G. Forster, *Fl. ins. austr.*: 75 (1786).

SPECIMEN: 2 sheets, 1 – Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 93–95, **2**: 245 '[[Laurifolia latifolia]] Lissophyllum lucidum'; Solander, D. Slip Catalogue **XXI**: 447–450.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers pale green' [SP]; 'Lissophyllum lucidum' [unknown]. 520×350/410.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 178[?]'. 525×350/430.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 25/625. 465×300/430; engraving proof *r* [pencil] 'Lissophyllum lucidum' [unknown]; col. engraving 1986 *BF*: pl. 468.

RUBIACEAE

NZ2/82 **Coprosma spathulata** Cunningham, *Ann. nat. Hist.* **2**: 207 (1839).

Specimen: 2 sheets, 1 – Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 111, 167 '[[Alata]] Pelaphioides rotundifolia'; Solander, D. Slip Catalogue **XXI**: 521–523.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '53' [unknown]; '[[Alata]] Pelaphioides rotundifolia' [unknown]; [ink] 'Tolaga' [JB]. 370×260/295.
Bacstrom, S. Ms.: 2.

NZ2/83 **Coprosma australis** (A. Richard) Robinson, *Proc. Am. Acad. Arts Sci.* **45** (17): 408 (1910).

Specimen: 3 sheets, 1 – Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 268–270 '[[Trophis]] Pelaphia grandifolia'; Solander, D. Slip Catalogue **XXI**: 215–217.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '62' [unknown]; '[[Trophis]] Pelaphia grandifolia' [unknown]. 525×350/440.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'. 520×350/450; see Carr, D. J. [Ed.] 1983 pl. 112 p. 119, col. pl.

Copper plate: [GS]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 24/598. 460×300/435; engraving proof *r* [pencil] 'Pelaphia grandifolia' [unknown]; col. engraving 1986 *BF*: pl. 469.

NZ2/84 **Coprosma robusta** Raoul, *Annls Sci. nat.*, sér 3, **2**: 121 (1844).

Specimen: 2 sheets, 1 – Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 69–70, 196–197 '[[Trophis]] [[omunda]] [[tinctoria]] Pelaphia laeta'; Solander, D. Slip Catalogue **XXI**: 219–224.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the male flowers pale green & the stamina very pale the females pale green tiles pale yellow green the fruit a pea green the upper side of the leaves dark green faintly vein'd the under side pale blue green vein'd with dark green the stalks grey green' [SP]; '22' [unknown]; '[[Trophis tinctoria]] Pelaphialaeta' [unknown]. 525×350/415.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'; [pencil] 'Obs the leaves are broader before the Middle' [unknown]; 'the flowers divided into 4 or 5 [?]' [unknown]. 525×350/435; see Beaglehole, J. C. 1962 **2**: pl. 18.

Copper plate: [DM]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 24/599. 465×300/435; engraving proof *r* [pencil] 'Pelaphia la'ta' [unknown]; col. engraving 1986 *BF*: pl. 470.

NZ2/85 **Coprosma lucida** Forster & G. Forster, *Char. gen. pl.*: 138, t. 69 (1775).

Specimen: 2 sheets, 1 – Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Oohoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 14–16 '[[Trophis]] Pelaphia laurifolia'; Solander, D. Slip Catalogue **XXI**: 225–230.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The berries when ripe the colour of a Kentish cherry' [SP]; '47' [unknown]; '[[Trophis]] Pelaphia laurifolia' [unknown]. 520×350/430.

Finished drawing: watercolours. 525×350/435.

Copper plate: [DM]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 24/600. 460×295/430; engraving proof *r* [pencil] 'Pelaphia laurifolia' [unknown]; col. engraving 1986 *BF*: pl. 471.

NZ2/86 **Coprosma repens** A. Richard, *Voy. Astrolabe, Botanique* (1): 264 (1832).

Specimen: Tolaga Bay, Opoorage, Oouhooragi, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 117–120, **2**: 241*; '[[Trophis]] Pelaphia retusa'; Solander, D. Slip Catalogue **XXI**: 231–235.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'flowers & buds green the stiles pale yellow green. The anthera greenish white a black stroke down the middle' [SP]; '27' [unknown]; '[[Trophis]] Pelaphia retusa' [unknown]. 530×350/390.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder [?]'; [pencil] 'Upper Branches square' [unknown]. 525×350/370.

Copper plate: [DM]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 23/551. 460×300/360; engraving proof *r* [pencil] 'Pelaphia retusa' [unknown]; col. engraving 1986 *BF*: pl. 472.

NZ2/87 **Coprosma propinqua** Cunningham, *Ann. nat. Hist.* **2**: 206 (1839).

Specimen: 3 sheets, New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 191–192, **2**: 292–293 '[[Trophis]] [[Waltherioides]] [[angustifolia]] [[glabrata]] Pelaphia parvifolia'; Solander, D. Slip Catalogue **XXI**: 237–239.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '75' [unknown]; 'Pelaphia parvifolia' [unknown]; 'Waltheria glabra' [unknown]; [ink] 'Opoorage' [JB]. 370×270/310.

Finished drawing: watercolours *r* [ink] 'Fred.^{k} Polydore Nodder Pinx^{t}. 1780.'. 520×350/300.

Copper plate: [GS]; Bacstrom, S. Ms.: 132; [not in Brown]. 460×300/290; engraving proof *r* [pencil] 'Pelaphia parvifolia' [unknown]; 'G^{d} Sibelius' [unknown]; col. engraving 1986 *BF*: pl. 473.

NZ2/88 COPROSMA ACEROSA Cunningham, *Ann. nat. Hist.* **2**: 207 (1839).

SPECIMEN: Teoneroa, Tolaga Bay, Opoorage (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 16–17 '[[Trophis]] Pelaphia acerosa'; Solander, D. Slip Catalogue **XXI**: 241–244.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '. . . [?]ng & 2 small' [unknown]; *v* pencil outlines [SP]; [pencil] 'The leaves grass green the stalks yellowish brown the anthera pale yellow corolla dirty green' [SP]; '40' [unknown]; '[[Trophis]] Pelaphia acerosa' [unknown]; [ink] 'Taoneroa.' [JB]. 370×260/290.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk. Polydore Nodder Pinxt [?]'. 525×350/310.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 132; [not in Brown]. 460×300/275; engraving proof *r* [pencil] 'Pelaphia acerosa' [unknown]; 'D. Mackenzie' [unknown]; col. engraving 1986 *BF*: pl. 474.

NZ2/89 NERTERA GRANADENSIS (Linnaeus f.) Druce, *Rep. botl Soc. Exch. Club Br. Isl.* **4**, suppl. 2: 637 (1917).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 261–262 '[[Aphanoides serpyllifolia]] Nertera depressa'; Solander, D. Slip Catalogue **IV**: 473–476.

FINISHED DRAWING: watercolours *r* [ink] 'Nertera depressa.' [SP]; 'Sydney Parkinson pinxt 1770'; *v* [pencil] 'the petala & stiles pale green anthera yellow the leaves grass green the stalk pale green [?].' [SP]; '15' [unknown]; 'Nertera depressa' [unknown]; [ink] 'Totara nue' [JB]. 270×340/100.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/62. 295×460/110; engraving proof *r* [pencil] 'Nertera depressa' [unknown]; col. engraving 1986 *BF*: pl. 475.

NZ2/90 GALIUM PROPINQUUM Cunningham, *Ann. nat. Hist.* **2**: 205 (1839).

SPECIMEN: Tolaga Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 105–107, **2**: 219 'Galium umbrosum'; Solander, D. Slip Catalogue **III**: 751–753.

FINISHED DRAWING: watercolours *r* [ink] 'Galium umbrosum.' [SP]; 'Sydney Parkinson pinxt 1770.'; *v* [pencil] 'the flowers white the rest of the plant a herbaceous green' [SP]; '17' [unknown]; 'Galium umbrosum' [unknown]; [ink] 'Tolaga' [JB]. 290×230/205.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/60. 460×295/205; engraving proof *r* [pencil] 'Galium umbrosum' [unknown]; col. engraving 1986 *BF*: pl. 476.

COMPOSITAE

NZ2/91 **Urostemon kirkii** (Hooker f. ex Kirk) B. Nordenstam, *Op. bot. Soc. bot. Lund* **44**: 33 (1978) var. kirkii.

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 154–155 'Cineraria glastifolia'; Solander, D. Slip Catalogue **XVII**: 355–358.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Corymb should be better expressed' [unknown]; '68' [unknown]; 'Cineraria glastifolia' [unknown]; [ink] 'Opoorage' [JB]. 365×265/270.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t}. 1779'; [pencil] 'too broad' [unknown]. 520×350/295; see Carr, D. J. [Ed.] 1983 pl. 113 p. 121, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 24/580. 460×300/290; engraving proof *r* [pencil] 'Cineraria glastifolia' [unknown]; col. engraving 1986 *BF*: pl. 477.

NZ2/92 **Olearia furfuracea** (A. Richard) Hooker f., *Handb. N. Zeal. fl.*: 125 (1864).

Specimen: Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 150–151 '[[Aster argenteus]] Solidago illita'; Solander, D. Slip Catalogue **XVII**: 235–238.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala white.' [SP]; '36.' [unknown]; '[[Aster]] Solidago illita' [unknown]. 525×350/380.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder, Pinx^{t}, 1779'; [pencil] 'Peduncles are flat' 'too broad' [unknown]. 520×345/410.

Copper plate: [GS]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 25/621. 460×300/405; engraving proof *r* [pencil] 'Solidago illita' [unknown]; col. engraving 1986 *BF*: pl. 478.

NZ2/93 **Olearia paniculata** (Forster & G. Forster) Druce, *Rep. botl Soc. Exch. Club Br. Isl.* **4**, suppl. **2**: 638 (1917).

Specimen: Opoorage, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 179–180, **2**: 221–222 '[[Aster]] [[Baccharoides]] [[undulata]] [[integrifolia]] Solidago undulata'; Solander, D. Slip Catalogue **XVII**: 231–234.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The petala white the Disk brownish yellow the calyx dirty purple.' [SP]; '76' [unknown]; '[[Aster]] Solidago undulata' [unknown]; [ink] 'Opoorage' [JB]. 465×280/375.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t}. 1779'. 525×345/410.

Copper plate: [GS]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 23/555. 460×300/405; engraving proof *r* [pencil] 'Solidago undulata' [unknown]; col. engraving 1986 *BF*: pl. 479.

NZ2/94 Celmisia gracilenta Hooker f., *Fl. antarct.* (1): 35 (1844).

Specimen: Admiralty Bay.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 315 [index entry only, no description] 'Aster gracilentus'; Solander, D. Slip Catalogue **XVII**: 37–40.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The underside of the leaves are shaded with grey & not w^{t} green' [SP]; '130' [unknown]; 'Aster gracilentus' [unknown]; [ink] 'Admiralty bay' [JB]. 375×265/280.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. 1779'. 525×350/320; see Beaglehole, J. C. 1962 **2**: pl. 166.

Copper plate: [GS]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 23/557. 460×300/315; engraving proof *r* [pencil] 'Aster gracilentus' [unknown]; col. engraving 1986 *BF*: pl. 480.

NZ2/95 Vittadinia australis A. Richard, *Voy. Astrolabe Botanique* (1): 251 (1832).

Specimen: Teoneroa, Tolaga Bay, Opoorage, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 8–9 'Aster humilis'; Solander, D. Slip Catalogue **XVII**: 9–11.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'yellow' 'white' [SP]; *v* 'The Radius white & the Disk yellow' [SP]; '17' [unknown]; 'Aster humilis' [unknown]; 'Taoneroa' [JB]. 365×270/145.

Finished drawing: watercolours [FPN[?]]. 525×345/145.

Copper plate: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 25/619. 460×295/145; engraving proof *r* [pencil] 'Aster humilis' [unknown]; col. engraving 1986 *BF*: pl. 481.

NZ2/96 Lagenifera lanata Cunningham, *Ann. nat. Hist.* **2**: 126 (1839).

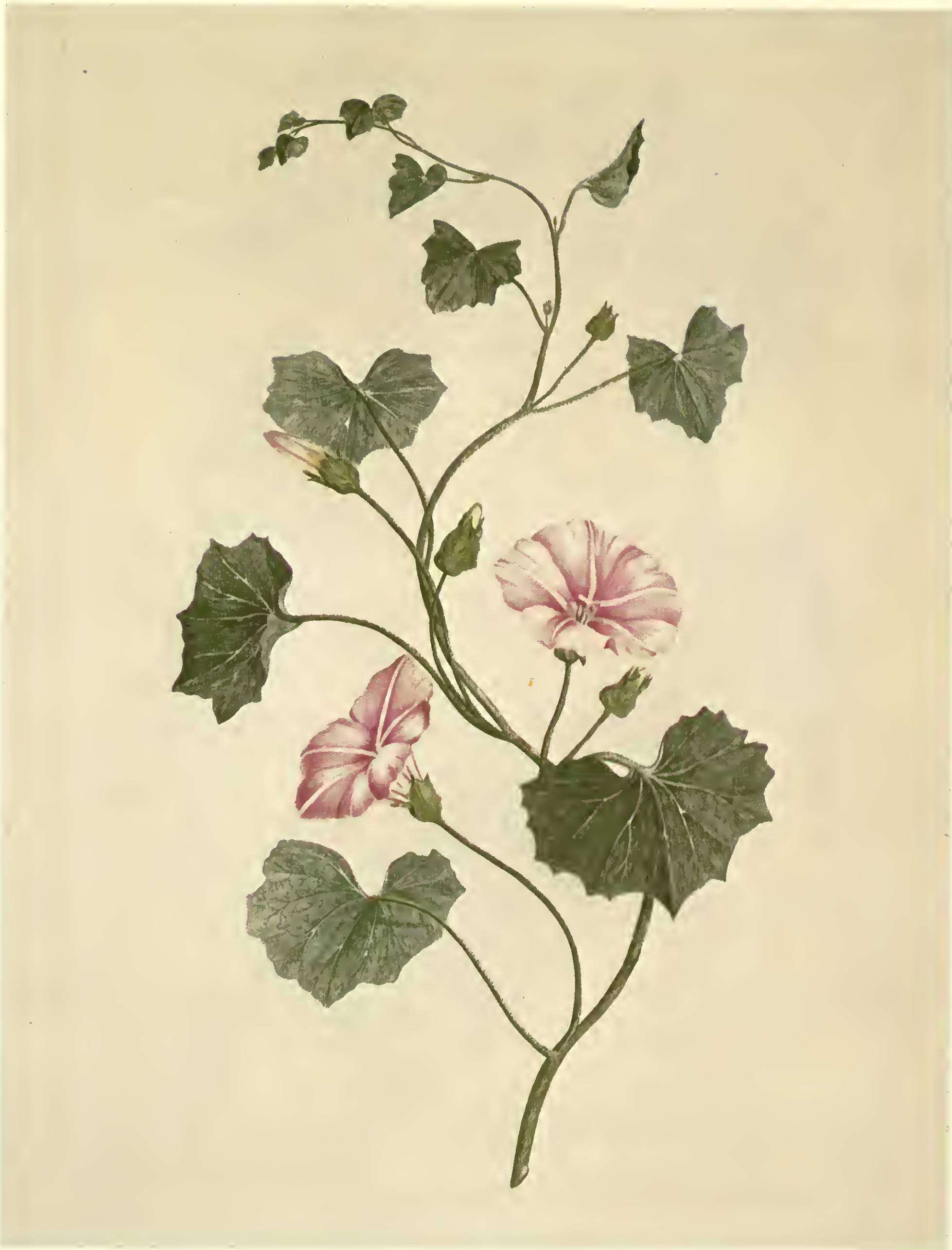
Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 222–223 'Bellis pilosa'; Solander, D. Slip Catalogue **XVII**: 441–443.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'white' [SP]; *v* 'The radius in some white & in others pale crimson the Disk greenish yellow' [SP]; '98' [unknown]; 'Bellis pilosa' [unknown]; [ink] 'Motuaru' [JB]. 365×270/275.

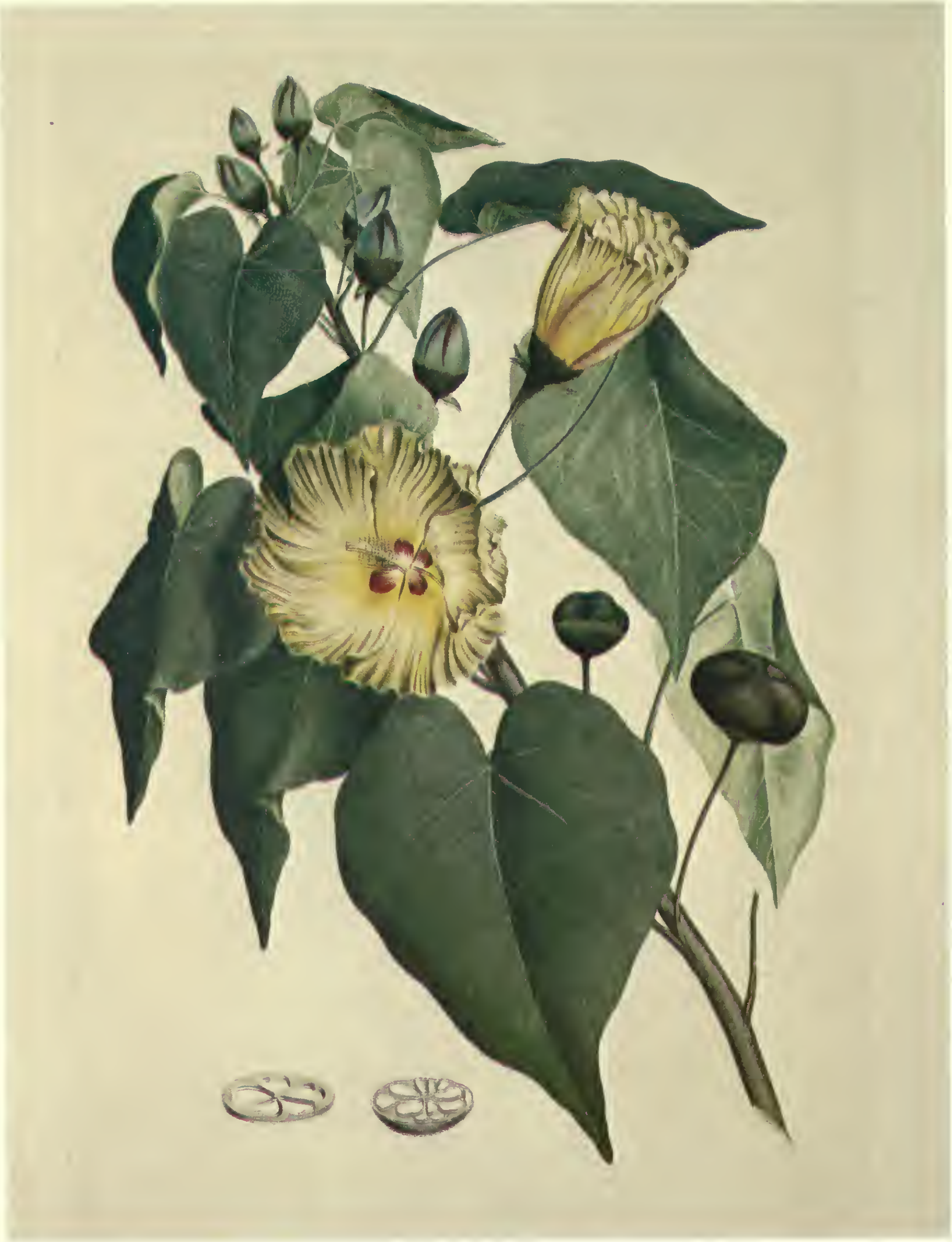
Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. 1779'; [pencil] 'Bent back' 'larger' 'too large' [unknown]. 520×350/265.

Copper plate: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 23/554. 460×300/270; engraving proof *r* [pencil] 'Bellis pilosa' [unknown]; col. engraving 1986 *BF*: pl. 482.



NZ3/128 *Calystegia tuguriorum*

[Plate 512 from *Banks' Florilegium*]
gathered Motu aro Island, New Zealand, 29 November and 2 December 1769
line engraving by William Tringham after Sydney Parkinson (1769) and
John Frederick Miller (1773)
455 × 295 mm



SI 1/12 *Thespesia populnea*

[Plate 591 from ***Banks' Florilegium***]
gathered Otaheite, Society Islands, 13 April–1 June 1769
line engraving by Daniel MacKenzie after Sydney Parkinson (1769)
460 × 300 mm

NZ2/97 **LAGENIFERA PUMILA** (G. Forster) Cheeseman, *Subantarctic Is. N.Z.* **2**: 412 (1909).

SPECIMEN: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island, Admiralty Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 9 'Bellis Geum'; Solander, D. Slip Catalogue **XVII**: 449–452.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the leaves a herbaceous green the stalks paler the radius white & the disk pale greenish yellow.' [SP]; '18' [unknown]; 'Bellis geifolia' [unknown]; [ink] 'Taoneroa' [JB]. 365×270/125.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t [?]'; [pencil] 'no hairs on the Stem' 'Leave out the hairs of one Leaves – on some a f' 'few hairs on the petioles' [unknown]. 525×345/120.

COPPER PLATE: [GS]: Bacstrom, S. Ms.: 116; Brown, R. Ms.: 24/581. 460×300/120; engraving proof *r* [pencil] 'Bellis geifolia' [unknown]; col. engraving 1986 *BF*: pl. 483.

NZ2/98 **CASSINIA LEPTOPHYLLA** (G. Forster) R. Brown, *Trans. Linn. Soc. Lond.* **12**: 126 (1817).

SPECIMEN: Teoneroa, Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 41–42, 84–85 '[[Chrysocoma]] Calea cinerea'; Solander, D. Slip Catalogue **XVI**: 303–305.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'white' 'green ting'd w^t red'; *v* 'The upper side of the leaves dark green below pale whitish green with a green vein, the stalks whitish green.' [SP]; '38' [unknown]; 'Calaea cinerea' [unknown]; [ink] 'Taoneroa' [JB]. 365×270/300.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t[?]'. 520×345/260.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 114; [not in Brown]. 460×300/260; engraving proof *r* [pencil] 'Calea cinerea' [unknown]; 'G. Sibelius' [unknown]; col. engraving *BF*: pl. 484.

NZ2/99 **OLEARIA SOLANDRI** (Hooker f.) Hooker f., *Handb. N. Zeal. fl.*: 128 (1864).

SPECIMEN: Tolaga Bay, Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 122 'Calea axillaris'; Solander, D. Slip Catalogue **XVI**: 307–308.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers are mostly singly placed, & the pedunculi very short coverd wth scales' [unknown]; '12' [unknown]; 'Calaea axillaris' [unknown]; [ink] 'Tolaga' [JB]. 365×265/305.
Bacstrom, S. Ms.: 114.

NZ2/100 COTULA SQUALIDA (Hooker f.), *Handb. N. Zeal. fl.*: 143 (1864) subsp. SQUALIDA.

SPECIMEN: Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 143 'Cotula dioica'; Solander, D. Slip Catalogue **XVII**: 495–499.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '57' [unknown]; 'Cotula dioica' [unknown]; [ink] 'Opoorage' [JB]. 365×270/285. Bacstrom, S. Ms.: 118.

NZ2/101 CRASPEDIA UNIFLORA G. Forster, *Fl. ins. austr.*: 58 (1786).

SPECIMEN: New Zealand.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 258–260 '[[Stoebeoides globulifera]] Cartodium apricum'; Solander, D. Slip Catalogue **XVIII**: 141–145.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '111' [unknown]; '[[Staebeoides globulifera]] Cartodeum apricum' [unknown]; [ink] 'Totarra nue' [JB]. 450×275/365.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} [?]'. 525×345/360.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 29/708. 465×300/340; engraving proof; col. engraving 1986 *BF*: pl. 485.

NZ2/102 HELICHRYSUM FILICAULE Hooker f., *Fl. nov.-zel.* (1): 140, t. 36 (1852).

SPECIMEN: 2 sheets, Totara nui (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 263–264, 266 'Conyza uniflora'; Solander, D. Slip Catalogue **XVI**: 505–508.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the Leaves are not pointed.' [unknown]; '114' [unknown]; 'Conyza uniflora' [unknown]; [ink] 'Totarra nue' [JB]. 365×270/160.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} [?]'; [pencil] 'Caylx too short' [unknown]. 525×345/165.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 23/560. 460×300/160; engraving proof *r* [pencil] 'Conyza uniflora' [unknown]; col. engraving 1986 *BF*: pl. 486.

NZ2/103 BRACHYGLOTTIS REPANDA Forster & G. Forster, *Char. gen. pl.*: 92, t. 46 (1775).

SPECIMEN: 2 sheets, 1 – Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 62 '[[Baccharoides odorata]] Cineraria odorata'; Solander, D. Slip Catalogue **XVII**: 371–374.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '8' [SP]; *v* 'the upper side of the leaves grass green the veins a little ting'd w^{t} purple the under side white with a glaucus cast the upper side of the young leaves more yellow &

a little downy' [SP]; '12' [unknown]; '[[Baccharoides odorata]] Cineraria dealbata' [unknown]. 525×340/425.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder [?]'. 520×335/440.

Copper plate: [GS]; Bacstrom, S. Ms.: 116; [not in Brown]. 460×300/435; engraving proof *r* [pencil] 'Cineraria dealbata' [unknown]; 'G. Sibelius' [unknown]; col. engraving 1986 *BF*: pl. 487.

NZ2/104 **Senecio rufiglandulosus** Colenso var. **solandri** (Allan) Allan, *Fl. N.Z.* **1**: 1030 (1961).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 335 [index entry only, no description] 'Senecio [[exaltatus]] latifolius'; Solander, D. Slip Catalogue **XVI**: 659–661.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the inferior Leaves are broader and not so [[much]] deeply cut' [unknown]; 'the flowers bright yellow, the stalks a yellow green the upper side of the leaves grass green faintly ting'd w^t bluish purple about the veins the underside a Glaucus green & the veins faint blue purple which tinges the rest of the leaf, a little' [SP]; '11.' [unknown]; 'Senecio [[exaltus]] latifolius' [unknown]. 525×345/435.

Finished drawing: watercolours *r* [ink] 'Frederick Polydore Nodder [?]'. 525×345/440.

Copper plate: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 26/641. 460×295/435; engraving proof *r* [pencil] 'Senecio latifolius' [unknown]; col. engraving 1986 *BF*: pl. 488.

NZ2/105 **Senecio lautus** G. Forster ex Willdenow, *Sp. pl. ed. 4,* **3**: 1981 (1804) subsp. **lautus**.

Specimen: Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 112, **2**: 242* 'Senecio [[glabratus]] lautus'; Solander, D. Slip Catalogue **XVI**: 655–658.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Laciniae go out more at right angles' [unknown]; 'the leaves on the upperside a bright grass green below more glaucus the Stalks & calyx yellow green the lower leaves of the Calyx & tipt with black the flowers yellow' [SP]; '41' [unknown]; 'Senecio [[glabratus]] lautus' [unknown]; [ink] 'Tolaga' [JB]. 355×260/290.

Finished drawing: watercolours *r* [ink] 'Frederick Polydore Nodder pinx^t [?]'. 525×350/320.

Copper plate: [GS]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 23/558. 460×300/320; engraving proof *r* [pencil] 'Senecio lautus' [unknown]; col. engraving 1986 *BF*: pl. 489.

NZ2/106 Senecio scaberulus (Hooker f.) D. Drury, *N.Z. Jl Bot.* **12**: 535 f. 11 (1974).

Specimen: Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 335 [index entry only, no description]; ‘Senecio incomptus lalidus [?] α’ Solander, D. Slip Catalogue **XVI**: 651–653.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘yellow’ ‘pale green’ [unknown]; *v* ‘The small Lobes of the lower leaves go out as right angles or very nearly so The Sinus not so much resolute’ [unknown]; ‘the leaves a grass green somewhat inclining to blue above, below more glaucus the stalks pale yellow green’ [SP]; ‘84’ [unknown]; ‘Senecio incomptus’ [unknown]; [ink] ‘Opoorage’ [JB]. 460×275/385.

Finished drawing: watercolours *r* [ink] ‘Frederick Polydore Nodder Pinx^{t} [?]’; [pencil] ‘The points darker’ [unknown]. 525×350/390.

Copper plate: [GS]; Bacstrom, S. Ms.: 116; [not in Brown]. 460×295/390; engraving proof *r* [pencil] ‘Senecio incomptus.’ [unknown]; ‘G:^{d}. Sibelius’ [unknown]; col. engraving 1986 *BF*: pl. 490.

NZ2/107 Senecio glomeratus Desfontaines ex Poiret in Lamarck, *Encycl. suppl.* **5**: 130 (1817).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 35 ‘Senecio plebeius’; Solander, D. Slip Catalogue **XVI**: 647–649.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘6’ [unknown]; ‘Senecio plebeius’ [unknown]; [ink] ‘Taoneroa’ [JB]. 455×270/375.

Finished drawing: watercolours *r* [ink] ‘Frederick Polydore Nodder Pinx^{t} [?]’; [pencil] ‘a little broader’ [unknown]. 525×350/380.

Copper plate: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 23/559. 460×295/375; engraving proof *r* [pencil] ‘Senecio plebejus’ [unknown]; col. engraving 1986 *BF*: pl. 491.

NZ2/108 Senecio quadridentatus Labillardière, *Nov. Holl. pl.* **2**: 48, t. 194 (1806).

Specimen: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 34–35 ‘Senecio angustifolius’; Solander, D. Slip Catalogue **XVI**: 643–646.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘18’ [unknown]; ‘Senecio angustifolius’ [unknown]. 525×350/445.

Finished drawing: watercolours *r* [ink] ‘Frederick Polydore Nodder Pinx^{t} [?]’. 525×350/450.

Copper plate: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 26/640. 460×300/450; engraving proof *r* [pencil] ‘Senecio angustifolius’ [unknown]; col. engraving 1986 *BF*: pl. 492.

NZ2/109 **SENECIO MINIMUS** Poiret in Lamarck, *Encycl. suppl.* **5**: 130 (1817) car. **MINIMUS.**

SPECIMEN: 2 sheets, Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 3 [index entry only, no description]; 'Senecio [[tenuiflorus]] tabidus' Solander, D. Slip Catalogue **XVI**: 639–641.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '105.' [unknown]; 'Senecio tabidus' [unknown]; [ink] 'Totarra nue' [JB]. 455×280/360.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. [?]'. 525×350/410.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 26/639. 460×295/405; engraving proof *r* [pencil] 'Senecio tabidus' [unknown]; 'D. Mackenzie' [unknown]; col. engraving 1986 *BF*: pl. 493.

NZ2/110 **MICROSERIS SCAPIGERA** (Solander ex Cunningham) Schultz-Bipontinus, *Pollichia* **22–24**: 310 (1866).

SPECIMEN: Totara nui (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 260, 262 '[[Leontodon lactucoides]] Scorzonera scapigera'; Solander, D. Slip Catalogue **XV**: 749–752.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '112.' [unknown]; '[[Leontodon lactucoides]] Scorzonera scapigera' [unknown]; [ink] 'Totarra nue' [JB]. 360×255/185.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1779'. 525×350/185.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 23/565. 460×300/190; engraving proof *r* [pencil] 'Scorzonera scapigera' [unknown]; col. engraving 1986 BF: pl. 494.

NZ2/111 **KIRKIANELLA NOVAE-ZELANDIAE** (Hooker f.) Allan, *Fl. N.Z.* **1**: 762 (1961).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 271–273 '[[Leontodon elegans]] Hieracium fragile'; Solander, D. Slip Catalogue **XV**: 801–803.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '123' [unknown]; '[[Leontodon elegans]] Hieraceum fragile' [unknown]; [ink] 'Totarra nue or Queen Charlottes Soun' [JB]. 355×260/170; see Beaglehole, J. C. 1962 **2**: pl. 16a.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 177 [?]'. 525×350/170.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 23/564. 465×300/170; engraving proof *r* [pencil] 'Hieracium fragile' [unknown]; col. engraving 1986 *BF*: pl. 495.

GOODENIACEAE

NZ3/112 **SELLIERA RADICANS** Cavanilles, *An. Hist. nat. Madrid* **1**: 41, t. 5, f. 2 (1799).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 254* 'Lobelia [[littoralis]] reptans'; Solander, D. Slip Catalogue **V**: 451–454.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'underneath pale violet' [unknown]; *v* 'The Peduncles are oftner solitari than bini.' [unknown]; 'The flower white the Base on the inside ting'd w^t yellow the outside lin'd with black. the stile dirty purple.' [SP]; '121.' [unknown]; 'Lobelia littoralis' [unknown]; 'reptans' [unknown]; [ink] 'Totarre nue' [JB]. 260×325/80.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder Pinx^t. 1782'. 475×320/85.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 26/643. 460×300/90; engraving proof *r* [pencil] 'Lobelia littoralis' [unknown]; see Sampson, F. B. 1985 pl. 5; col. engraving 1986 *BF*: pl. 496.

CAMPANULACEAE

NZ3/113a **LOBELIA ALATA** Labillardière, *Nov. Holl. pl.* **1**: 51, t. 72 (1805).

SPECIMEN: see NZ 3/113b.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 78, **2**: 216 'Lobelia [[angulata]] triangularis'; Solander, D. Slip Catalogue **V**: 369–372.

OUTLINE DRAWING: pencil outlines [SP]; *v* [pencil] 'Lobelia angulata' [unknown]; 'triangularis' [unknown]; [ink] 'Tolaga' [JB]. 360×250/285. Bacstrom, S. Ms.: 118.

NZ3/113b **LOBELIA ALATA** Labillardière, *Nov. Holl. pl.* **1**: 51, t. 72 (1805).

SPECIMEN: Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 78, **2**: 216 'Lobelia [[angulata]] triangularis'; Solander, D. Slip Catalogue **V**: 369–372.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves a grass green the flowers purple the under side of the leaves glaucus the flowers blueish purple on the outside, toward the base dark red purple spreading itself into the middle vein of each petal' [SP]; '47.' [unknown]; 'Lobelia angulata' [unknown]; 'triangularis' [unknown]; [ink] 'Tolaga' [JB]. 265×340/140.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k. Polydore Nodder Pinx^t. 1782'. 475×330/180.

COPPER PLATE: [DM, '1783']; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 28/685. 455×300/175; engraving proof *r* [pencil] 'Lobelia triangularis' [unknown]; 'D. Mackenzie' [unknown]; col. engraving 1986 *BF*: pl. 497.

NZ3/114 Lobelia angulata G. Forster, *Fl. ins. austr.*: 58 (1786).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 87 'Lobelia [[albiflora]] rotundifolia'; Solander, D. Slip Catalogue **V**: 413–415.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'flowers white the bottom of the Petala ting'd w^{t} green the pistillum blue leaves a fresh green the stalk gray green spotted w^{t} black' [SP]; '36' [unknown]; 'Lobelia albifl' [unknown]; 'rotundif' [unknown]; [ink] 'Tegadu' [JB]. 260×315/110.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. 17[?]'. 500×340/110.

Copper plate: [DM, '1783']; Bacstrom, S. Ms.: 120; Brown, R. Ms.: 28z[?]. 455×300/105; engraving proof *r* [pencil] 'Lobelia rotundifolia albiflora' [unknown]; 'G$^{d.}$ Sibelius' [unknown]; col. engraving 1986 *BF*: pl. 498.

NZ3/115a Wahlenbergia marginata (Thunberg) A. de Candolle, *Monogr. Campan.*: 143 (1830).

Specimen: *.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 7 'Campanula [[Choella]] polymorpha [[ca'rulea]] tenella α'; Solander, D. Slip Catalogue **V**: 255–258.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves grass green the lower ones hairy the stalks more yellow the flowers pale blue w^{t} a cast of purple.' [SP]; '54' [unknown]; 'Campanula polymorpha A' [unknown]; [ink] 'Taoneroa' [JB]. 375×265/230.

Finished drawing: watercolours *r* [ink] 'James Miller Del:'; *v* [pencil] 'Campanula polymorpha' [unknown]. 525×340/250.

Copper plate: [WT]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 8/185. 460×295/250; engraving proof *r* [pencil] 'Campanula polymorpha tenella' [unknown]; col. engraving 1986 *BF*: pl. 499.

NZ3/115b Wahlenbergia marginata (Thunberg) A. de Candolle, *Monogr. Campan.*: 143 (1830).

Specimen: *.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 8 'Campanula polymorpha juncea β'; Solander, D. Slip Catalogue **V**: 255–258.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the flower white w^{t} a cast of purple the rest of the plant grass green the tops of the calyx ting'd w^{t} dark purple' [SP]; '54' [unknown]; 'Campanula polymorpha β' [unknown]; [ink] 'Taoneroa' [JB]. 460×290/370.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t} 1774'; *v* [pencil] 'Campanula polymorpha' [unknown]. 495×340/395.
Bacstrom, S. Ms.: 30.

ERICACEAE

NZ3/116 **Gaultheria antipoda** G. Forster, *Fl. ins. austr.*: 34 (1786).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 145–147, **2**: 239* 'Andromeda [[baccifera]] baccata'; Solander D. Slip Catalogue **x**: 641–644.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The fruit on the branch at the bottom white' [SP]; '78' [unknown]; '[[Andromeda baccata]]' [unknown]; 'Gualteria erecta' [unknown]; [ink] 'Opoorage' [JB]. 355×260/270.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} [?]'; [pencil] 'Gualteria [[erecta]]' [unknown]; 'antipoda Willd.' [unknown]. 525×345/275.

Copper plate: [DM]; Bacstrom, S. Ms.: 72; Brown, R. Ms.: 19/452. 460×295/275; engraving proof *r* [pencil] 'Gaultheria erecta' [unknown]; col. engraving 1986 *BF*: pl. 500.

EPACRIDACEAE

NZ3/117 **Dracophyllum sinclairii** Cheeseman, *Man. New Zealand fl.*: 421 (1906).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 142 '[[Azaleoides longifolia]] Ardisia frondosa squarrosa *β*'; Solander, D. Slip Catalogue **v**: 37–42; 1973 *CF*: pl. 12a *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '24' [unknown]; 'Epacris longifolia *β*. squarrosa' [unknown]; *v* '5[[3]]7' [unknown]; 'Ardisia frondosa' [unknown]; [ink] 'Opoorage' [JB]. 370×255/255.

Finished drawing: watercolours *r* [ink] 'James Miller pinx.'; [pencil] 'Epacris longifolia *β* squarrosa Ms' [unknown]; *v* 'Ardisia frondosa NZ' [unknown]. 475×325/300.

Copper plate: [WT]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 8/192. 460×295/310; engraving proof *r* [pencil] 'Epacris longifolia' [unknown]; engraving 1973 *CF*: pl. 12a; col. engraving 1986 *BF*: pl. 501.

NZ3/118 **Styphelia juniperina** (Forster & G. Forster) Persoon, *Syn. pl.* **1**: 174 (1805).

Specimen: 2 sheets, 1 – Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 145, **2**: 301 '[[Laugierioides]] Stiphelia acerosa'; Solander, D. Slip Catalogue **v**: 49–51.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '33' [unknown]; 'Stephelia acerosa' [unknown]; [ink] 'Opoorage' [JB]. 370×265/265.

Finished drawing: watercolours *r* [ink] 'James Miller pinxt'; *v* [pencil]

'Stiphilia acerosa' [unknown]. 510×345/305.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/114. 460×300/305; engraving proof *r* [pencil] 'Stiphelia acerosa' [unknown]; col. engraving 1986 *BF*: pl. 502.

NZ3/119 Styphelia fasciculata (G. Forster) Sleumer, *Blumea* **12**: 153 (1963).

Specimen: 2 sheets, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 160–161, 195 '[[Laugerioides]] Stiphelia lanceolata'; Solander, D. Slip Catalogue **V**: 53–55.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '34' [unknown]; 'Stephelia lanceolata' [unknown]; [ink] 'Opoorage' [JB]. 370×265/285.

Finished drawing: watercolours *v* [pencil] 'Stiphelia lanceolata' [unknown]. 490×335/310.

Copper plate: [DM]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 8/194. 460×295/310; engraving proof *r* [pencil] 'Stiphelia lanceolata juniperina' [unknown]; col. engraving 1986 *BF*: pl. 503.

NZ3/120 Styphelia nesophila (de Candolle) Sleumer, *Blumea* **12**: 153 (1963).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 144 '[[Laugerioides azaleoides]] Stiphelia [[humilis]]'; Solander, D. Slip Catalogue **V**: 57–60.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers white foliola calycina pale green ting'd w^{t} red at the points the leaves vivid grass green with a yellow margin stalks dark brown the capsulae blk green.' [SP]; '35.' [unknown]; 'Stephelia humilis' [unknown]; [ink] 'Opoorage' [JB]. 290×220/160.

Finished drawing: watercolours *r* [ink] 'James Miller Pinxt.'; *v* [pencil] 'Stiphelia humilis' [unknown]. 505×350/165.

Copper plate: [WT]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 9/211. 460×295/165; engraving proof *r* [pencil] 'Stiphelia humilis' [unknown]; col. engraving 1986 *BF*: pl. 504.

PRIMULACEAE

NZ3/121 Samolus repens (Forster & G. Forster) Persoon, *Syn. pl.* **I**: 171 (1805).

Specimen: 2 sheets, 1 – Opoorage, Motu aro Island, Tolaga Bay, Totara nui.

Manuscript: [not in Solander, D. Pl. Austral. (NZ)]; Solander, D. Slip Catalogue **V**: 321–324 'Samolus prostratus'.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The plant trailing upon the ground – the leaves rather larger' [unknown]; '77' [unknown]; 'Samolus prostratus' [unknown]; [ink] 'Tolaga' [JB]. 350×260/255.

Finished drawing: watercolours *r* [ink] 'Samolus prostratus' [unknown]; *v* [pencil] 'James Miller pinx^{t}. 1772'. 410×290/230.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 28, 30; Brown, R. Ms.: 7/154. 460×295/230; engraving proof *r* [pencil] 'Samolus prostratus' [unknown]; col. engraving 1986 *BF*: pl. 505.

MYRSINACEAE

NZ3/122 **MYRSINE AUSTRALIS** (A. Richard) Allan, *Trans. Proc. R. Soc. N.Z.* **76**: 596 (1947).

SPECIMEN: Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 181–182, **2**: 252* '[[Diospyroides monosperma]] Merista laevigata'; Solander, D. Slip Catalogue **XXI**: 381–384.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'only 2 in the Calyx' [SP]; 'longer [?]' [SP]; *v* '71' [unknown]; 'Diaspyastrum . . . [?]' [unknown]; 'Merista laevigata' [unknown]. 470×290/430.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t [?]'. 520×340/380.

COPPER PLATE: [FPN]; Bacstrom, S. Ms.: 140; [not in Brown.]. 465×300/380; engraving proof; col. engraving 1986 *BF*: pl. 506.

OLEACEAE

NZ3/123 **NESTEGIS APETALA** (Vahl) L. Johnson in Degener, *New Ill. Fl. Hawaiian Is.*: 300 (1958).

SPECIMEN: Motu aro Island.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 222, 231–232 'Olea apetala'; Solander, D. Slip Catalogue **I**: 321–325.

FINISHED DRAWING: watercolours *r* [ink] 'Olea apetala.' [SP]; 'Sydney Parkinson pinx^t 1770'. 515×340/455.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/16. 460×295/440; engraving proof *r* [pencil] 'Olea apetala' [unknown]; col. engraving 1986 *BF*: pl. 507.

APOCYNACEAE

NZ3/124 **PARSONSIA HETEROPHYLLA** Cunningham, *Ann. nat. Hist.* **2**: 46 (1839).

SPECIMEN: Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 153, 250*, **2**: 244*–245* '[[Cynanchum nivea]] Periploca capsularis'; Solander, D. Slip Catalogue **VII**: 193–198.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '51' [unknown]; 'Periploca capsularis α' [unknown]. 520×340/455.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinx^t'. 1774'; *v* [pencil]

‘Periploca capsularis *α*’ [unknown]. 525×350/460.

Copper plate: [DM]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/126. 460×295/425; engraving proof *r* [pencil] ‘Periploca capsularis latifolia’ [unknown]; col. engraving 1986 *BF*: pl. 508.

NZ3/126a **Parsonsia heterophylla** Cunningham, *Ann. nat. Hist.* **2**: 46 (1839).

Specimen: Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 153, **2**: 244*–245*, 250* ‘[[Cynanchum nivea]] Periploca capsularis’; Solander, D. Slip Catalogue **VII**: 193–198.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘To show the nature of the bursting of the Capsule – & the Seeds’ [unknown]; ‘51’ [unknown]; ‘Periploca capsularis *β*’ [unknown]; [ink] ‘Totarra nue’ [JB]. 460×275/375.

Finished drawing: watercolours *r* [ink] ‘John Frederick Miller pinxt 1774.’. 525×350/385.

Copper plate: [DM]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 6/127. 460×295/385; engraving proof *r* [pencil] ‘Periploca capsularis angustifolia’ [unknown]; col. engraving 1986 *BF*: pl. 509.

Notes: this drawing was numbered incorrectly in the original sequence; the species is a member of the Apocynaceae family and it should follow logically NZ3 124.

LOGANIACEAE

NZ3/125 **Geniostoma rupestre** Forster & G. Forster var. crassum (Cheeseman) Conn, *Blumea* **26**: 294 (1980).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage, Oohoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 83–84 ‘[[Ribeastrum ligustrinum]] Aspilotum laevigatum’; Solander, D. Slip Catalogue **IV**: 805–808.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘The difference between the Calyx & peduncla better expressed in the lower figure.’ [unknown]; ‘The flowers a pale green’ [SP]; ‘Gegadu’ [unknown]; ‘56’ [unknown]; ‘Aspilotum ligustrinum’ [unknown]. 425×275/385.

Finished drawing: watercolours *r* [ink] ‘James Miller pinx^{t}. 1772..’; ‘Aspilotum ligustrinum’ [unknown]. 515×345/380.

Copper plate: [WS]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 4/82. 460×295/375; engraving proof *r* [pencil] ‘Aspilotum ligustrinum’ [unknown]; col. engraving 1986 *BF*: pl. 510.

BORAGINACEAE

NZ3/126 **Myosotis forsteri** Lehmann, *Pl. Asperif. nucif.*: 95 (1818).

Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 285–286 'Myosotis [[spicata]] rigida'; Solander, D. Slip Catalogue **IV**: 595–597.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '[[124]] 28' [unknown]; 'Myostis rigida' [unknown]; [ink] 'Totarra nue' [JB]. 360×250/245.

Finished drawing: watercolours *r* [ink] 'Myosotis rigida' [unknown]. 425×270/245.

Copper plate: [DM]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 8/184. 460×295/245; engraving proof *r* [pencil] 'Myosotis rigida' [unknown]; col. engraving 1986 *BF*: pl. 511.

Notes: NZ3/126a follows entry NZ3/124.

NZ3/127 **Myosotis spathulata** G. Forster, *Fl. ins. austr.*: 12 (1786).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 64–65, **2**: 264, 286–287 'Myosotis albiflora rotundifolia'; Solander, D. Slip Catalogue **IV**: 591–593.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the whole plant cover'd with fine hair, the leaves a fresh green dotted w^{t} red the stalks spotted w^{t} black the flowers white the points of the calyx ting'd red.' [SP]; '27' [unknown]; 'Myosotis albiflora rotundifolia' [unknown]; [ink] 'Tegadu' [JB]. 365×255/160.

Finished drawing: watercolours *r* [ink] 'Myosotis albiflora rotundifolia' [unknown]. 520×350/195.
Bacstrom, S. Ms.: 28.

CONVOLVULACEAE

NZ3/128 **Calystegia tuguriorum** (G. Forster) R. Brown ex Hooker f., *Fl. nov.-zel.* (**1**): 183, t. 47 (1853).

Specimen: Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 217–218 'Convolvulus versatilis'; Solander, D. Slip Catalogue **V**: 103–105.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers pale blush colour & the nerves white' [SP]. 525×350/375.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinxt 1773'; 'Convolvulus versatilis' [unknown]. 525×350/440.

Copper plate: [WT]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/84. 455×295/440; engraving proof *r* [pencil] 'Convolvulus versatilis' [unknown]; col. engraving 1986 *BF*: pl. 512.

NZ3/128a **Calystegia sepium** (Linnaeus) R. Brown, *Prodr.*: 483 (1810).

Specimen: 2 sheets, Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 54–56, 60, 176* 'Convolvulus lentus'; Solander, D. Slip Catalogue **V**: 115–118.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The upper leaves somewhat longer & the angali sharper truncated' [unknown]; 'The flowers a pale crimson w^{t} a cast of Purple the nerves white.' [SP]; '38' [unknown]; 'Convolvulus lentus' [unknown]; [ink] 'Tegadu' [JB]. 460×275/340.

Finished drawing: watercolours *r* [ink] 'James Miller pinx^{t}. 1773'; 'Convolvulus lentus.' [unknown]. 510×350/350.

Copper plate: [WT]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/88. 460×295/350; engraving proof *r* [pencil] 'Convolvulus lentus' [unknown]; col. engraving 1986 *BF*: pl. 513.

NZ3/129 **Calystegia tuguriorum** (G. Forster) R. Brown ex Hooker f., *Fl. nov.-zel.* (1): 183, t. 47 (1853).

Specimen: 2 sheets, 1 – Teoneroa, Tegadu Bay, Tolaga Bay, Oohoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 17–19 'Convolvulus lacteus'; Solander, D. Slip Catalogue **V**: 131–134.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'the flowers white strip't w^{t} green at the base, anthera [[yel]] pale yellow, upper side of the leaves fresh green, the under side of the leaves Glaucus vein'd w^{t} purple, the stalks pale green speckl'd w^{t} purple.' [SP]; '37' [unknown]; 'Convolvulus lacteus' [unknown]; [ink] 'Taoneroa' [JB]. 435×280/370.

Finished drawing: watercolours *r* [ink] 'Convolvulus lacteus' [unknown]. 525×355/370; see Sampson, F. B. 1985 pl. 3, col. pl.

Copper plate: [TS]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/90. 460×295/370; engraving proof *r* [pencil] 'Convolvulus lacteus' [unknown]; col. engraving 1986 *BF*: pl. 514.

NZ3/130 **Calystegia soldanella** (Linnaeus) R. Brown, *Prodr.*: 484 (1810).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 176–177, 176* 'Convolvulus reniformis'; Solander, D. Slip Catalogue **V**: 229–232.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Bractea are very little longer than the Calyx' [unknown]; 'The flowers lilac colour with the nerves white.' [SP]; '39' [unknown]; 'Convolvulus reni' [unknown]; [ink] 'Oupoorage' [JB]. 445×270/390.

Finished drawing: watercolours *r* [ink] 'James Miller pinxt 1773';

'Convolvulus reniformis.' [unknown]. 525×350/440; see Carr, D. J. [Ed.] 1983 pl. 114 p. 121, col. pl.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 5/102. 465×295/415; engraving proof *r* [pencil] 'Convolvulus reniformis' [unknown]; col. engraving 1986 *BF*: pl. 515.

NZ3/131 **DICHONDRA REPENS** Forster & G. Forster, *Char. gen. pl.*: 40, t. 20 (1775).

SPECIMEN: Tegadu Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 63, 192–194 '[[Hydrocotyloides uniflora]] Steripha reniformis'; Solander, D. Slip Catalogue **VII**: 463–465.

FINISHED DRAWING: watercolours *r* [ink] 'Steripha reniformis' [unknown]; 'Sydney Parkinson pinx^t 1770'; *v* [pencil] 'The . . . [?] petala pale green . . . with a [?]' [SP]; '21 [?]' [unknown]; 'Steripha reniformis' [unknown]; [ink] 'Tegadu' [JB]. 355×250/155.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 9/205. 460×295/155; engraving proof *r* [pencil] 'Steripha reniformis' [unknown]; col. engraving 1987 *BF*: pl. 516.

SOLANACEAE

NZ3/132 **SOLANUM AVICULARE** G. Forster, *Pl. esc.*: 42 (1786).

SPECIMEN: 3 sheets, 1 – Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 30 'Solanum [[incisum]] [[angustifolium]] lanceum'; Solander, D. Slip Catalogue V: 771–774; 1973 *CF*: pl. 13 *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The veins to be quite transvestal, & the marginal veins very little bent, The Lacinia of the Calyx are terminated with an Acumen' [unknown]; 'The berries the colour of minium' [SP]; 'N° 460' [unknown]; 'Solanum Lanceum' [unknown]; 'La[?] matum' [unknown]. 525×350/435.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^t. 1774'; *v* [pencil] 'Solanum lanceum.' [unknown]; 'laciniatum' '[laciniatum]' [unknown]. 525×355/450.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 7/155. 460×295/445; engraving proof *r* [pencil] 'Solanum lanceum' [unknown]; engraving 1973 *CF*: pl. 13; col. engraving 1987 *BF*: pl. 517.

NZ3/133 **SOLANUM NODIFLORUM** Jacquin, *Icon. pl. rar.* **2**: 11 (1795), t. 326 (1788–9).

SPECIMEN: 4 sheets, 1 – Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island, Totara nui, 2–4 *sn*, *sl*.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 29–30, 89 'Solanum [[dissectum]] [[purellum]] nigrum'; Solander, D. Slip Catalogue **V**: 791–794.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves of the Calyx are blunt' [unknown]; 'The whole plant a fresh green, the flowers white stamina yellow the fruit when ripe black.' [SP]; 'N°. 47'; [unknown]; 'Solanum nigrum' [unknown]; [ink] 'Motuaru' [JB]. 460×275/330.

FINISHED DRAWING: watercolours *r* [ink] 'John Frederick Miller pinx^{t} 1774.'; *v* [pencil] 'Solanum nigrum' [unknown]. 520×350/325.
Bacstrom, S. Ms.: 32.

SCROPHULARIACEAE

NZ3/134 **GRATIOLA SEXDENTATA** R. Cunningham ex Cunningham, *Ann. nat. Hist.* **1**: 459 (1838).

SPECIMEN: Tolaga Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 70–71 '[[Gratioloides sessilifolia]] Gratiola sessilis'; Solander, D. Slip Catalogue **1**: 655–657b.

FINISHED DRAWING: watercolours *r* [ink] 'Gratiola sessilis' [unknown]; 'Sydney Parkinson pinx^{t} 1770.'; *v* [pencil] '6' [unknown]; '[[gratioloides sessifolia]]' [unknown]; 'Gratiola sessilis' [unknown]; [ink] 'Tolaga' [JB]. 290×230/120.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 2/29. 460×295/120; engraving proof *r* [pencil] 'Gratiola sessilis' [unknown]; col. engraving 1987 *BF*: pl. 518.

NZ3/135 **HEBE MACROCARPA** (Vahl) Cockayne & Allan, *Trans. Proc. N.Z. Inst.* **57**: 20 (1927) var. MACROCARPA.

SPECIMEN: 2 sheets, 1 – Opoorage, Tolaga Bay, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 136–137 '[[Justicioides salicifolia]] Veronica macrocarpos'; Solander, D. Slip Catalogue **1**: 407–412.

FINISHED DRAWING: watercolours *r* [ink] 'Veronica macrocarpos' [unknown]; 'Sydney Parkinson pinx^{t}. 1770.'. 520×345/420.

COPPER PLATE: [M]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/19. 455×295/415; engraving proof *r* [pencil] 'Veronica macrocarpos' [unknown]; col. engraving 1987 *BF*: pl. 519.

NZ/136 **HEBE SALICIFOLIA** (G. Forster) Pennell, *Rhodora* **23**: 39 (1921).

SPECIMEN: 2 sheets, 1 – Tolaga Bay, Opoorage, Motu aro Island, Totara nui, 2 – Teoneroa, Tolaga Bay, Tegadu Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 264 '[[Justicioides microcarpus]] Veronica glabella'; Solander, D. Slip Catalogue **1**: 413–416.

FINISHED DRAWING: watercolours *r* [ink] 'Veronica glabella' [SP]; 'Sydney Parkinson pinx^{t} 1770'. 525×350/430; see Cook, J. 1977 p. 77 pl. v.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/20. 460×295/430; engraving proof *r* [pencil] 'Veronica glabella' [unknown]; col. engraving 1987 *BF*: pl. 520.

NZ3/137 **HEBE PARVIFLORA** (Vahl) Cockayne & Allan, *Trans. Proc. N.Z. Inst.* **57**: 23 (1927).

SPECIMEN: New Zealand.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 264–265 '[[Justicioides angustifolia]] Veronica floribunda'; Solander, D. Slip Catalogue **I**: 423–427.

FINISHED DRAWING: watercolours *r* [ink] 'Veronica floribunda' [SP]; Sydney Parkinson pinx^{t} 1770'; *v* [pencil] '10' [unknown]; 'Veronica floribunda' [unknown]; [ink] 'Totarra nue' [JB]. 450×280/290; see Beaglehole, J. C. 1962 **2**: pl. 17.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/21. 460×295/285; engraving proof *r* [pencil] 'Veronica floribunda'; col. engraving 1987 *BF*: pl. 521.

NZ3/138 **EUPHRASIA CUNEATA** G. Forster, *Fl. ins. austr.*: 43 (1786).

SPECIMEN: Tegadu Bay, Tolaga Bay, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 126–127, **2**: 253–254 '[[Euphrasioides frutescens]] Euphrasia conspicua'; Solander, D. Slip Catalogue **XIII**: 243–247.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'Calyx Divided in 4' [unknown]; *v* '104' [unknown]; 'Euphrasia conspicua' [unknown]; [ink] 'Totarra nue' [JB]. 450×275/385.

FINISHED DRAWING: watercolours. 525×350/395.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 26/637. 460×300/395; engraving proof *r* [pencil] 'Euphrasia conspicua' [unknown]; col. engraving 1987 *BF*: pl. 522.

GESNERIACEAE

NZ3/139 **RHABDOTHAMNUS SOLANDRI** Cunningham, *Ann. nat. Hist.* **1**: 460 (1838).

SPECIMEN: Opoorage (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 156, 172–173 'Columnea scabrosa'; Solander, D. Slip Catalogue **XIII**: 761–766; 1973 *CF*: pl. 13a *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '105' [unknown]; 'Columnea scabrosa' [unknown]. 525×350/365.

FINISHED DRAWING: watercolours [ink] 'Fred^{k} Polydore Nodder Pinx^{t} [?]'. 525×350/400; see Carr, D. J. [Ed.] 1983 pl. 118 p. 125, col. pl.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 98; Brown, R. Ms.: 20/490. 460×300/395; engraving proof *r* [pencil] 'Columnea scabrosa' [unknown]; engraving 1973 *CF*: pl. 13a; col. engraving 1987 *BF*: pl. 523.

MYOPORACEAE

NZ3/140 **Myoporum laetum** G. Forster, *Fl. ins. austr.*: 44 (1786).

Specimen: 2 sheets, 1 – Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Oohoorage, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 1, 13–14, 98 '[[Duranta formosa]] Myoporum littorale'; Solander, D. Slip Catalogue **XIII**: 703–708.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '106' [unknown]; 'Myoporum littorale' [unknown]. 525×350/365.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder [?]'; [pencil] 'Germen' 'under' 'upper' 'underside' '×4' [unknown]. 525×350/370; see Carr, D. J. [Ed.] 1983 pl. 115 p. 122, col. pl.

Copper plate: [GS]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 28/684. 460×300/365; engraving proof *r* [pencil] 'Myoporum littorale' [unknown]; 'G^{d}. Sibelius' [unknown]; col. engraving 1987 *BF*: pl. 524.

VERBENACEAE

NZ3/141 **Vitex lucens** Kirk, *Trans. Proc. N.Z. Inst.* **29**: 525 (1897).

Specimen: Tolaga Bay, Motu aro Island, Totara nui (syntype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 125–126, **2**: 225 '[[Pentaphylla drupacea]] Ephielis drupacea'; Solander, D. Slip Catalogue **XIII**: 475–478.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers crimson rather deep, the red side cover'd w^{t} down the filaments white Anthera black the stile white' [SP]; '[?]03' [unknown]; 'Ephialis pentaphylla' [unknown]. 525×350/430.

Finished drawing: watercolours *r* [ink] 'Frederick Polydore Nodder [?]'. 525×350/440; see Carr, D. J. [Ed.] 1983 pl. 117 p. 124, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 20/488. 460×300/430; engraving proof *r* [pencil] 'Ephielis pentaphylla'; col. engraving 1987 *BF*: pl. 525.

PLANTAGINACEAE

NZ/142a **Plantago raoulii** Decaisne in de Candolle, *Prodr.* **13** (1): 703 (1852).

Specimen: 2 sheets, 1 – Tolaga Bay, Motu aro Island, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 110 'Plantago pilosa'; Solander, D. Slip Catalogue **IV**: 245–248.

Finished drawing: watercolours *r* [ink] 'Plantago pilosa' [SP]; 'Sydney Parkinson pinx^{t}. 1770.'; *v* [pencil] 'the corrolla is of a pale brown membraneous substance.' [SP]; '16.' [unknown]; 'Plantago pilosa' [unknown]; [ink] 'Tolaga' [JB]. 370×265/225.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/67. 460×300/225; engraving proof *r* [pencil] 'Plantago pilosa' [unknown]; col. engraving 1987 *BF*: pl. 526.

NZ3/142b **PLANTAGO RAOULII** Decaisne in de Candolle, *Prodr.* **13** (1): 703 (1852).

SPECIMEN: Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 288–289 'Plantago erecta'; Solander, D. Slip Catalogue **IV**: 241–244.

FINISHED DRAWING: watercolours *r* [ink] 'Plantago erecta' [SP]; 'Sydney Parkinson pinx^{t} 1770'; *v* [pencil] '15' [unknown]; 'Plantago Erecta' [unknown]. 460×285/395.

COPPER PLATE: [JL]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/66. 460×295/390; engraving proof *r* [pencil] 'Plantago erecta' [unknown]; col. engraving 1987 *BF*: pl. 527.

CARYOPHYLLACEAE

NZ3/143 **SCLERANTHUS BIFLORUS** (Forster & G. Forster) Hooker f., *Fl. nov.-zel.* (1): 74 (1852).

SPECIMEN: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 38–40 '[[Querioides]] Ditoca muscosa'; Solander, D. Slip Catalogue **I**: 225–228.

FINISHED DRAWING: watercolours *r* [ink] 'Ditoca muscosa' [SP]; 'Sydney Parkinson pinx 1770.'; *v* [pencil] '7.' [unknown]; 'Ditoca muscosa' [unknown]; [ink] 'Totarra nue' [JB]. 290×235/90.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/32. 460×295/90; engraving proof *r* [pencil] 'Ditoca muscosa' [unknown]; col. engraving 1987 *BF*: pl. 528.

CHENOPODIACEAE

NZ3/144 **SARCOCORNIA QUINQUEFLORA** (Bunge ex Ungern-Sternberg) A. J. Scott, *Bot. J. Linn. Soc.* **75**: 368 (1978).

SPECIMEN: Teoneroa.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 40, 127–129 'Salicornia australis'; [not in Solander, D. Slip Catalogue].

FINISHED DRAWING: watercolours *r* [ink] 'Salicornia australis.' [SP]; 'Sydney Parkinson pinx^{t} 1770.'; *v* [pencil] '1' [unknown]; 'Salicornia australis' [unknown]; [ink] 'Tolaga' [JB]. 365×260/185.

COPPER PLATE: [B]; Bacstrom, S. Ms.: 4; Brown, R. Ms.: 1/4. 455×295/185; engraving proof *r* [pencil] 'Salicornia australis' [unknown]; col. engraving 1987 *BF*: pl. 529.

NZ3/145 **CHENOPODIUM ALLANII** Aellen, *Candollea* **8**: 7 (1939).

SPECIMEN: Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 175 'Chenopodium humifusum'; Solander, D. Slip Catalogue **VII**: 345–346.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves a fresh green the small ones more Glaucus the stalks & petiola stain'd purple the leaves edg'd with purple the buds green.' [SP]; '36' [unknown]; 'Chenopodium humifusum' [unknown]; [ink] 'Motuaru' [JB]. 455×280/390.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller Pinxt.'. 525×350/390.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 38; Brown, R. Ms.: 8/186. 460×295/390; engraving proof *r* [pencil] 'Chenopodium humifusum' [unknown]; col. engraving 1987*BF*: pl. 530.

TETRAGONIACEAE

NZ3/146 **TETRAGONIA TRIGYNA** Banks & Solander ex Hooker f., *Handb. N. Zeal. fl.*: 84 (1864).

SPECIMEN: Totara nui (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 278–280 'Tetragonia trigyna'; Solander, D. Slip Catalogue **XII**: 5–7.

OUTLINE DRAWING: pencil outlines with colour references [SP]. 280×440/135.

FINISHED DRAWING: watercolours *r* [pencil] '30 [?]' [unknown]; [ink] 'Fredk. Polydore Nodder Pinxt [?]'. 525×350/205.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 86; Brown, R. Ms.: 26/635. 460×295/200; engraving proof *r* [pencil] 'Tetragonia trigyna' [unknown]; col. engraving 1987*BF*: pl. 531.

NZ3/147 **TETRAGONIA TETRAGONIOIDES** (Pallas) Kuntze, *Revis. gen. pl.* **1**: 264 (1891).

SPECIMEN: Teoneroa, Tegadu Bay, Tolaga Bay, Opoorage, Motu aro Island, Totaranui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 30, **2**: 280–282 'Tetragonia [[herbacea]] [[**1**: Horalis]] cornuta'; Solander, D. Slip Catalogue **XII**: 15–18.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '6 styles' [SP]; *v* '92' [unknown]; 'Tetragonia cornuta' [unknown]; [ink] 'Totarra nue' [JB]. 285×450/230.

FINISHED DRAWING: watercolours *r* [ink] 'Fredk. Polydore Nodder Pinxt [?]'. 525×350/210.

COPPER PLATE: [GS, '1782']; Bacstrom, S. Ms.: 86; Brown, R. Ms.: 29/724. 460×295/205; engraving proof *r* [pencil] 'Tetragonia cornuta' [unknown]; 'G. Sibelius' [unknown]; col. engraving 1987*BF*: pl. 532.

POLYGONACEAE

NZ3/148 **Muehlenbeckia australis** (G. Forster), Meisner, *Pl. vasc. gen.* **2**: 227 (1841).

Specimen: Tolaga Bay, Tegadu Bay, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 88 '[[Polygonoides dioica]] Polygonum baccatum'; Solander, D. Slip Catalogue **x**: 97–100.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] '2' '5' '1' '3' '4' [SP]; *v* 'The leaves grass green the stalks & flowers pale green several of the Calyx Baccatus to be put upon the flower spikes' [SP]; '19' [unknown]; '[[Polygonoides dioica]]' [unknown]; 'Polygonum baccatum' [unknown]. 525×350/375.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx^{t}: 1775.'. 525×345/425.

Copper plate: [DM]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 12/276. 465×295/425; engraving proof *r* [pencil] 'Polygonum baccatum' [unknown]; col. engraving 1987*BF*: pl. 533.

NZ3/149 **Muehlenbeckia complexa** (Cunningham) Meisner, *Pl. vasc. gen. (2)*: 227 (1841).

Specimen: Teoneroa, Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 93, 153–154, **2**: 203 '[[Polygonoides pandurata]] Polygonum heterophyllum'; Solander, D. Slip Catalogue **x**: 101–104; 1973 *CF*: pl. 14 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves on the upper side grass green on the underside more glaucus vein'd with dark green the margin of the petioles & stalks dark purple the flowers white with a cast of green the bractea pale brown. The capsula baccatis white & seed black.' [SP]; '11' [unknown]; '[[Polygonoides pandur]]' [unknown]; 'Polygonum heterophyllum' [unknown]; [ink] 'Tolaga' [JB]. 360×260/265.

Finished drawing: watercolours *r* [ink] 'Jn^{o}: Cleveley Jun^{r}: Pinxt 1775.'. 525×350/305.

Copper plate: [EW]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 12/277. 465×300/310; engraving proof *r* [pencil] 'Polygonum heterophyllum'; see Sampson, F. B. 1985 pl. 4; engraving 1973 *CF*: pl. 14; col. engraving 1987*BF*: pl. 534.

NZ3/150 **Rumex flexuosus** Banks & Solander ex Hooker f., *Fl. nov.-zel.* (1): 211 (1853).

Specimen: Tegadu Bay, Tolaga Bay, Totara nui (syntype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 101 'Rumex [[dichotomus]] flexuosus'; Solander, D. Slip Catalogue **ix**: 231–233.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'ting w' red[?]' 'green' [SP]; *v* 'The whole plant a grass green somewhat pale the lower part of the stalks ting'd w^t red' [SP]. 525×350/440.

Finished drawing: watercolours. 525×345/435.

Copper plate: [DM]; Bacstrom, S. Ms.: 54; Brown, R. Ms.: 24/576. 463×303/430; engraving proof *r* [pencil] 'Rumex flexuosus' [unknown]; col. engraving 1987 *BF*: pl. 535.

PIPERACEAE

NZ3/151 **Macropiper excelsum** (G. Forster) Miquel, *Syst. piperac.*: 221 (1843).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 27–29 'Piper myristicum'; Solander, D. Slip Catalogue **II**: 115–118.

Finished drawing: watercolours *r* [ink] 'Piper myristicum' [SP]; 'Sydney Parkinson pinx^t 1770.'. 525×345/400; see Carr, D. J. [Ed.] 1983 pl. 116 p. 123, col. pl.

Copper plate: [TS]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/35. 460×295/400; engraving proof *r* [pencil] 'Piper myristicum' [unknown]; col. engraving 1987 *BF*: pl. 536.

NZ3/152 **Peperomia urvilleana** A. Richard, *Voy. Astrolabe, Botanique* (1): 356 (1832).

Specimen: *.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 133–134, 192 'Piper [[insipidum]] fatuum'; Solander, D. Slip Catalogue **II**: 151–152.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '9' [unknown]; 'Piper insipidum' [unknown]; [ink] '[[Taoneroa]] Tolaga' [JB]. 365×255/270.

Finished drawing: watercolours *r* [ink] 'Piper insipidum' [unknown]. 515×335/275.

Copper plate: [DM]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/38. 460×295/275; engraving proof *r* [pencil] 'Piper insipidum' [unknown]; col. engraving 1987 *BF*: pl. 537.

LAURACEAE

NZ3/153 **Litsea calicaris** (Cunningham) Bentham & Hooker f. ex Kirk, *Forest fl. New Zealand*: 15, t. 10 (1889).

Specimen: 2 sheets, 1 – Motu aro Island (syntype).

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 232–234 'Laurus calicaris'; Solander, D. Slip Catalogue **X**: 207–209.

Outline drawing: pencil outlines with colour references [SP]. 520×335/280.

FINISHED DRAWING: watercolours *r* [ink] 'James Miller pinx^{t} June 7th. 1775 the Last drawing'. 525×340/330.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 68; Brown, R. Ms.: 17/422. 465×295/330; engraving proof *r* [pencil] 'Laurus calicaris' [unknown]; 'G. Sibelius Engr.' [unknown]; col. engraving 1987 *BF*: pl. 538.

NZ3/154 **BEILSCHMIEDIA TAWA** (Cunningham) Bentham & Hooker f. ex Kirk, *Forst fl. New Zealand*: 257, t. 126 (1889).

SPECIMEN: Oohoorage, Totara nui (lectotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 201–202, 207 'Laurus salicifolia';
Solander, D. Slip Catalogue **X**: 233–236.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] '6[?]' '6 corrolla' '12 stam' [SP]. 525×340/400.

FINISHED DRAWING: watercolours. 525×340/400.

COPPER PLATE: [RB]; Bacstrom, S. Ms.: 68; Brown, R. Ms.: 20/476. 460×295/395; engraving proof *r* [pencil] 'Laurus salicifolia' [unknown]; col. engraving 1987 *BF*: pl. 539.

PROTEACEAE

NZ3/155 **KNIGHTIA EXCELSA** R. Brown, *Trans. Linn. Soc. Lond.* **10**: 194, t. 2 (1810).

SPECIMEN: 2 sheets, Tolaga Bay, Opoorage (holotype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 67–68 '[[Brabeioides biflora]] Brabeium sparsum'; Solander, D. Slip Catalogue **III**: 659–664.

FINISHED DRAWING: watercolours *r* [ink] 'Brabejum sparsum' [SP]; 'Sydney Parkinson pinx^{t} 1770.'. 520×340/455; see Beaglehole, J. C. 1962 **2**: pl. 13; Allen, O. E. 1980: p. 136, col. pl.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 20, 22; Brown, R. Ms.: 3/69. 460×295/425; engraving proof *r* [pencil] 'Embothrium serratum' [unknown]; see Brown, R. 1811 *Transactions of the Linnean Society* **X**: p. 194 tab. 2; col. engraving 1987 *BF*: pl. 540; see Adams, B. 1986 col. pl.

THYMELAEACEAE

NZ3/156 **PIMELEA ARENARIA** Cunningham ex Hooker, *Curtis's bot. Mag.* **60**: t. 3270 (1833).

SPECIMEN: Tolaga Bay, Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **I**: 103–105 '[[Veronicoides]] Pimelea villosa'; Solander, D. Slip Catalogue **I**: 367–369.

FINISHED DRAWING: watercolours [SP]; *r* [ink] 'Pimalea villosa.' [SP]; 'Sydney Parkinson'. 435×285/345.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/8. 460×295/345; engraving proof *r* [pencil] ‘Pimelea villosa’ [unknown]; ‘Simple’ [unknown]; col. engraving 1987*BF*: pl. 541.

NZ3/157 **Pimelea prostrata** (Forster & G. Forster) Willdenow, *Sp. pl. ed. 4*, **1**: 51 (1797).

Specimen: 2 sheets, New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 24–25, 77–78, **2**: 240–241 ‘[[Veronicoides]] Pimelea la’vigata’; Solander, D. Slip Catalogue **1**: 371–374.

Finished drawing: watercolours *r* [ink] ‘Pimalea laevigata’ [SP]; ‘Sydney Parkinson pinx^{t} 1770.’; *v* [pencil] ‘The flowers white and the stamina yellow’ [SP]; ‘2’ [unknown]; ‘Pimelaea laevigata’ [unknown]; [ink] ‘Taoneroa’ [JB]. 365×265/220.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/9. 460×295/215; engraving proof *r* [pencil] ‘Pimelea laevigata’ [unknown]; ‘obtuse’ [unknown]; col. engraving 1987*BF*: pl. 542.

NZ3/158 **Pimelea longifolia** Banks & Solander ex Wikström, *K. svenska VetenskAkad. Handl.* **82**: 280 (1818).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 77–78 ‘[[Veronicoides]] Pimelea longifolia’; Solander, D. Slip Catalogue **1**: 379–382.

Finished drawing: watercolours *r* [ink] ‘Pimelea longifolia’ [SP]; ‘Sydney Parkinson pinx^{t} 1770.’; *v* [pencil] ‘6.’ [unknown]; ‘Pimelea longifolia’ [unknown]’. 450×285/395; see Carr, D. J. [Ed.] 1983 pl. 121 p. 127.

Copper plate: [M]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/11. 460×295/395; engraving proof *r* [pencil] ‘Pimelea longifolia’ [unknown]; ‘of 2’ ‘1’ [unknown]; col. engraving 1987*BF*: pl. 543.

NZ3/159 **Pimelea tomentosa** (Forster & G. Forster) Druce, *Rep. botl Soc. Exch. Club Br. Isl.* **4**, suppl. 2: 639 (1917).

Specimen: 2 sheets, 1 – Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 151–152 ‘[[Veronicoides]] Pimelea axillaris’; Solander, D. Slip Catalogue **1**: 375–378.

Finished drawing: watercolours *r* [ink] ‘Pimalea axillaris’ [SP]; ‘Sydney Parkinson pinx^{t} 1770’; *v* [pencil] ‘The fruit white’ [SP]; ‘3’ [unknown]; ‘Pimelaea axillaris’ [unknown]. 460×280/385.

Copper plate: [M]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/10. 460×295/385; engraving proof *r* [pencil] ‘Pimelea axillaris’ [unknown]; col. engraving 1987*BF*: pl. 544.

LORANTHACEAE

NZ3/160 **Alepis flavida** (Hooker f.) Tieghem, *Bull. Soc. bot. Fr.* **41**: 605 (1894).

Specimen: New Zealand (syntype).

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 275–277 'Loranthus tetrandrus'; Solander, D. Slip Catalogue **IX**: 155–158.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Divided to the bottom' [SP]; 'Loranthus tetrandrus' [unknown]. 525×340/430.

Finished drawing: watercolours *r* [ink] 'James Miller Pinxt. 1775'. 525×340/445.

Copper plate: [DM]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 13/324. 460×295/450; engraving proof *r* [pencil] 'Loranthus tetrandrus' [unknown]; col. engraving 1987*BF*: pl. 545.

NZ3/161a **Tupeia antarctica** (G. Forster) Chamisso & Schlectendal, *Linnaea* **3**: 203 (1828).

Specimen: see NZ3/161b.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 251 'Viscum laetum'; Solander, D. Slip Catalogue **XX**: 143–146.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Viscoides laeta' [unknown]; [ink] 'Queen Charlotts Sound' [JB]. 355×260/295. Bacstrom, S. Ms.: 2.

NZ3/161b **Tupeia antarctica** (G. Forster) Chamisso & Schlectendal, *Linnaea* **3**: 203 (1828).

Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 251 'Viscum laetum'; Solander, D. Slip Catalogue **XX**: 143–146.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '100.' [unknown]; '[[Viscum laetum]] Viscoides laeta' [unknown]; [ink] 'Totarra nue' [JB]. 460×275/340.
Bacstrom, S. Ms.: 2.

NZ3/161c **Ileostylus micranthus** (Hooker f.) Tieghem, *Bull. Soc. bot. Fr.* **41**: 489 (1894).

Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 244* '[[Viscum]] Viscoides latifolium'; Solander, D. Slip Catalogue **XX**: 143–146.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '56' [unknown]; 'Viscoides latifoli[[um]]a' [unknown]. 520×345/430.
Bacstrom, S. Ms.: 2.

RHAMNACEAE

NZ3/162 Pomaderris phylicifolia Loddiges ex Link, *Enum. hort. berol. alt.* (1): 232 (1821).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 144–145 '[[Ledoides rosmarinifolia]] Stifrum ledifolium'; Solander, D. Slip Catalogue **VIII**: 25–27.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '29' [unknown]; 'Stifrum ledifolium' [unknown]; [ink] 'Opoorage' [JB]. 455×260/370.

Finished drawing: watercolours *r* [ink] 'John Frederick Miller pinx.$^{t.}$ 1772.'; 'Stifrum ledifolium' [JFM]. 440×285/365.

Copper plate: [DM]; Bacstrom, S. Ms.: 42; [not in Brown]. 465×295/370; engraving proof; col. engraving 1987 *BF*: pl. 546.

EUPHORBIACEAE

NZ3/163 Euphorbia glauca G. Forster, *Fl. ins. austr.*: 36 (1786).

Specimen: Opoorage, Oohoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 139–141 'Euphorbia purpurea'; Solander, D. Slip Catalogue **XI**: 421–424.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves to be made narrower & broadest without the middle' [unknown]; '83' [unknown]; 'Euphorbia purpurea' [unknown]; [ink] 'Opoorage.' [JB]. 460×270/370.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'. 525×345/420.

Copper plate: [DM]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 19/457. 460×295/405; engraving proof *r* [pencil] 'Euphorbia purpurea' [unknown]; col. engraving *BF*: pl. 547 [in preparation].

URTICACEAE

NZ3/164 Parietaria debilis G. Forster, *Fl. ins. austr.*: 73 (1786).

Specimen: 2 sheets, 1 – Tolaga Bay, Opoorage, Motu aro Island.

Manuscript: Solander, D. Pl. Austral. (NZ) **I**: 65–66 'Parietaria plebeia'; Solander, D. Slip Catalogue **XXI**: 133–134.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Leaves are made too long & [[sharp]] acute, they are emarginated' [unknown]; 'The leaves grass green stalks pale herbaceous green the petioles and veins on the back of the leaf ting'd w^{t} crimson' [SP]; '96' [unknown]; 'Parietaria plebeias' [unknown]; [ink] 'Motuaru' [JB]. 370×270/335.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'. 525×350/355.
Bacstrom, S. Ms.: 138.

MORACEAE

NZ3/165 **STREBLUSS HETEROPHYLLUS** (Blume) Corner var. **ELLIPTICA** (Kirk) Corner, *Gdns' Bull., Singapore* **19**: 221 (1962).

SPECIMEN: Tolaga Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 72, 86–87, 100–101 '[[Amentacea urticiflora]] Trophis opaca'; Solander, D. Slip Catalogue **XX**: 83–86.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The flowers pale green when in bud ting'd with red the anthera dirty purple the leaves a very dark green on the upper side w^{t} small veins of yellow below fresh green vein'd with dark green' [SP]; 'Trophis opaca' [unknown]. 525×350/400.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t}. 1780'. 525×350/410.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 25/624. 460×295/410; engraving proof *r* [pencil] 'Trophis opaca' [unknown]; col. engraving 1987 *BF*: pl. 548.

CHLORANTHACEAE

NZ3/166 **ASCARINA LUCIDA** Hooker f., *Fl. nov.-zel.* (1): 228 (1853).

SPECIMEN: Totara nui (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 290–291 '[[Amentacea nitida]] Trophis lucida'; Solander, D. Slip Catalogue **XX**: 87–88.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '110' [unknown]; 'Amentacea nitida' [unknown]; 'Trophis lucida MS' [unknown]; [ink] 'Totarra nue' [JB]. 460×285/375.

FINISHED DRAWING: watercolours. 525×350/370.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 23/552. 460×300/370; engraving proof *r* [pencil] 'Trophis lucida' [unknown]; col. engraving 1987 *BF*: pl. 549.

URTICACEAE

NZ3/167 **ELATOSTEMA RUGOSUM** Cunningham, *Ann. nat. Hist.* **1**: 215 (1838).

SPECIMEN: Motu aro Island (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **2**: 225–228 'Dorstenia rugosa'; Solander, D. Slip Catalogue **XIX**: 85–88; 1973 *CF*: pl. 15a *pro descr.*

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'The

Cornicula receptaculs should be stronger expressed' [unknown]. 525×360/440.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'. 525×350/440.

Copper plate: ∗[GS]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 24/596. 600×300/435; engraving proof *r* [pencil] 'Dorstenia rugosa' [unknown]; engraving 1973 *CF*: pl. 15a.

NZ3/168 Urtica ferox G. Forster, *Fl. ins. austr.*: 66 (1786).

Specimen: 2 sheets, 1 – Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 242–243 'Urtica hastata'; Solander, D. Slip Catalogue **XIX**: 103–105.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '101.' [unknown]; 'Urtica hastata' [unknown]; [ink] 'Totarra nue' [JB]. 465×285/430.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'. 525×350/420.

Copper plate: [GS]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 27/666. 455×300/430; engraving proof *r* [pencil] 'Urtica hastata' [unknown]; 'G^{d} Sibelius' [unknown]; col. engraving *BF*: pl. 550 [in preparation].

ORCHIDACEAE

NZ4/169 Earina mucronata Lindley, *Bot. Reg.* **20**: t. 1699 (1835).

Specimen: 2 sheets, 1 – Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 177–178 'Epidendrum [[Ophrioides]] mucronatum'; Solander, D. Slip Catalogue **XVIII**: 365–368.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The main Root should be made creeping' [unknown]; '61' [unknown]; 'Epidendrum [[Ophyoides]] macronatum' [unknown]; [ink] 'Opoorage' [JB]. 465×285/340.

Finished drawing: watercolours *r* [ink] 'Fred^{k} Polydore Nodder Pinx^{t} 1780'. 525×350/425.

Copper plate: [GS]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 27/657. 460×300/420; engraving proof *r* [pencil] 'Epidendrum macronatum' [unknown]; 'G..^{d} Sibelius' [unknown]; col. engraving 1987 *BF*: pl. 551.

NZ4/170 Bulbophyllum pygmaeum (Smith) Lindley, *Gen. sp. orchid. pl.*: 58 (1830).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 240–241 'Epidendrum pygmaeum'; Solander, D. Slip Catalogue **XVIII**: 405–407.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '99' [unknown]; 'Epidendrum pygmaeum' [unknown]; [ink] 'Opoorage.' [JB]. 290×225/45.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'. 525×350/85.
Bacstrom, S. Ms.: 122.

NZ4/171 **DRYMOANTHUS ADVERSUS** (Hooker f.) Dockrill, *Australian Sarcanthinae*: 32, t. 3 (1967).

SPECIMEN: Opoorage (syntype).

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 149–150, **2**: 282–284 'Epidendrum [[humile]] adversum'; Solander, D. Slip Catalogue **XVIII**: 359–363.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] '125' [unknown]; 'Epidendrum adversum' [unknown]; 'Queen Charlotts sound' [JB]. 370×270/310.
Bacstrom, S. Ms.: 122.

NZ4/172 **DENDROBIUM CUNNINGHAMII** Lindley, *Bot. Reg.* **21**: t. 1756 (1836).

SPECIMEN: Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 182–184 'Epidendrum pendulum'; Solander, D. Slip Catalogue **XVIII**: 471–473.

OUTLINE DRAWING: pencil outlines with colour references [SP]. 525×345/430.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder. Pinx^{t} 178[?]'. 525×345/440.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 122, Brown, R. Ms.: 27/658. 460×300/435; engraving proof *r* [pencil] 'Epidendrum pendulum' [unknown]; 'D. Mackenzie' [unknown]; col. engraving 1987 *BF*: pl. 552.

NZ4/173 **THELYMITRA LONGIFOLIA** Forster & G. Forster, *Char. gen. pl.*: 98, t.49 (1775).

SPECIMEN: Tolaga Bay, Opoorage.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 101–103, 138–139, 141 'Serapias regularis'; Solander, D. Slip Catalogue **XVIII**: 295–301.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *r* [pencil] 'A' 'B' [?] [SP]; *v* 'The calyx and Bractea pale green Petals white' 'the leaves a grass green turning white towards the bottom the roots a pale brown' [SP]; '48' [unknown]; 'Serapias regularis' [unknown]; [ink] 'Tolaga' [JB]. 460×285/380.

FINISHED DRAWING: watercolours *r* [ink] 'Fred^{k} Polydore Nodder [?]'. 525×345/400.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 24/583. 460×300/400; engraving proof *r* [pencil] 'Serapias regularis' [unknown]; col. engraving 1987 *BF*: pl. 553.

NZ4/174 **Microtis unifolia** (G. Forster) Reichenbach f., *Bietr. syst. Pflanzenk.*: 62 (1871).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 11–13 'Ophrys porrifolia'; Solander, D. Slip Catalogue **XVIII**: 331–334.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaf grass green gradually turning into white at the bottom the spatha & root pale brown the flower stalk yellow green.' [SP]; '28' [unknown]; 'Ophrys porrifolia' [unknown]; 'Taoneroa' [JB]. 460×275/430.

Finished drawing: watercolours [ink] 'Fred^{k}. Polydore Nodder [?]'; [pencil] 'narrower' [unknown]. 525×345/450.

Copper plate: [DM]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 26/648. 460×300/455; engraving proof *r* [pencil] 'Ophrys porrifolia' [unknown]; col. engraving 1987 *BF*: pl. 554.

NZ4/175 **Orthoceras strictum** R. Brown, *Prodr.*: 317 (1810).

Specimen: Admiralty Bay.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 329 [index entry only, no description] 'Ophrys cornuta'; Solander, D. Slip Catalogue **XVIII**: 303–307.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The root semi transparent that of the plant in blossom more wrinkled than the other' [unknown]; '131' [unknown]; 'Ophrys cornuta' [unknown]; [ink] 'Admiralty Bay' [JB]. 465×285/410.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} 178[?]'. 525×350/410.

Copper plate: [GS]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 24/582. 460×295/410; engraving proof *r* [pencil] 'Ophys cornuta' [unknown]; col. engraving 1987 *BF*: pl. 555.

AGAVACEAE

NZ4/176 **Phormium tenax** Forster & G. Forster, *Char. gen. pl.: 48*, t. 24 (1775).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 155–156 '[[Hemerocallis rubra]] Clamidia tenacissima sanguinea α'; Solander, D. Slip Catalogue **VIII**: 751–756.

Outline drawing: pencil outlines with colour references [SP]. 525×345/425.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder pinx^{t} 1783'. 505×335/405.
Bacstrom, S. Ms.: 50.

NZ4/177 **Phormium cookianum** Le Jolis, *Lond. J. Bot.* **7**: 536 (1848).

Specimen: 2 sheets, New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 4–5, 89–90, **2**: 244–245 '[[Hemerocallis exaltata]] Clamidia tenacissima pallens β'; Solander, D. Slip Catalogue **VIII**: 751–756.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The three outer petals straw colour the inner petals pea green the filaments crimson the anthera yellow the buds more or less green according to their age.' [SP].
525×350/495.
Bacstrom, S. Ms.: 50

Notes: in Bacstrom the artist is entered as Nodder.

IRIDACEAE

NZ4/178 **Libertia grandiflora** (Banks & Solander ex R. Brown) Sweet, *Hort. brit. ed. 2*: 498 (1830).

Specimen: Tolaga Bay, Opoorage, Totara nui (holotype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 91–93 'Sisyrinchium exaltatum'; Solander, D. Slip Catalogue **XIV**: 227–232.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'Obs the [[interior]] exterior Petala obtusa cum acumine, the interior emarginata' [unknown]; 'The stalks & fruite yellow green ting'd w^t purple the pedunculi still more purple' [SP]; '20' [unknown]; 'Sisirynchium exaltatum' [unknown].
525×345/455.

Finished drawing: watercolours *r* [ink] 'Fred^k Polydore Nodder Pinx^t 1780'; [pencil] 'capsula [?]' [unknown]; 'too high' [unknown]; 'too much emarginated' [unknown]. 525×350/455.

Copper plate: [DM]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 24/587.
460×300/455; engraving proof *r* [pencil] 'Sisyrinchium exaltatum' [unknown]; col. engraving 1987 *BF*: pl. 556.

RIPOGONACEAE

NZ4/179 **Ripogonum scandens** Forster & G. Forster, *Char. gen. pl.*: 50, t. 25 (1775).

Specimen: 2 sheets, 1 – Tolaga Bay, Opoorage, Oohoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**; 105, 130, 166, **2**: 250* '[[Medeoloides scandens]] [[Baccifera]] [[Drupacea]] Smilax laqueans'; Solander, D. Slip Catalogue **XX**: 285–288.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The Veines of the leaves stronger (Triplinervia)' [unknown]; 'the anthera pale green the stile almost white.' [SP]; '62' [unknown]; 'Smilax laquean' [unknown].
525×345/430.
Bacstrom, S. Ms.: 134.

ASTELIACEAE

NZ4/180 Collospermum hastatum (Colenso) Skottsberg, *K. svenska VetenskAkad. Handl.*, ser. 3, **14** (2): 77 (1934).

Specimen: see NZ4/182a.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 273–275, 299–300 '[[Tillandsioides]] Astelia furfuracea'; Solander, D. Slip Catalogue **XXI**: 433–437; 1973 *CF*: pl. 15 *pro descr.*

Outline drawing: pencil outlines with colour references [SP]. 520×350/515.

Finished drawing: watercolours. 525×345/455; see Beaglehole. J. C. 1962 **2**: pl. 10.

Copper plate: [FPN]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 27/653. 460×300/440; engraving proof; engraving 1973 *CF*: pl. 15; col. engraving 1987 *BF*: pl. 557.

NZ4/181 Astelia banksii Cunningham, *Companion Bot. Mag.* **2**: 374 (1837).

Specimen: Totara nui, Tolaga Bay, Opoorage (lectotype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 199–200, **2**: 208–210, 277–278, 300 '[[Tillandsioides]] Astelia sericea [[major]]'; Solander, D. Slip Catalogue **XXI**: 427–431.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'too broad' [unknown]; 'longer' [unknown]. 525×345/515.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t} 1781'. 525×345/450.
Bacstrom. S. Ms.: 140.

NZ4/182a Collospermum hastatum (Colenso) Skottsberg, *K. svenska VetenskAkad. Handl.*, ser. 3, **14** (2): 77 (1934).

Specimen: 2 sheets, 1 – Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 273–275, 299–300 '[[Tillandsioides]] Astelia furfuracea'; Solander, D. Slip Catalogue **XXI**: 433–437.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The bottom of the leaves black which fades into yellow green & then into the collaur of one leaf.' [SP]. 520×350/510.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder [?]'. 525×345/460.
Bacstrom, S. Ms.: 140.

NZ4/182b Astelia nervosa Banks & Solander ex Hooker f., *Fl. nov.-zel.* (1): 260 (1853).

Specimen: *.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 296–299 '[[Tillandsioides]] Astelia nervosa'; Solander, D. Slip Catalogue **XXI**: 439–442.

Outline drawing: pencil outlines with colour references [SP]. 525×345/495.

Finished drawing: watercolours [FPN [?]]. 520×345/455.
Bacstrom, S. Ms.: 140.

Notes: in Bacstrom the artist is entered as Nodder.

IRIDACEAE

NZ4/183 **Libertia pulchella** (R. Brown) Sprengel, *Syst. veg.* **1**: 169 (1824).

Specimen: Opoorage,

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 168–169 ‘Anthericoides pygmea’; Solander, D. Slip Catalogue **XXI**: 495–497.

Outline drawing: pencil outlines [SP]; *v* [pencil] ‘The whole plant fresh green pale towards the bottom of the leaves the stalk stain’d with purple’ [SP]; ‘79’ [unknown]; ‘Anthericoides pygmae’ [unknown]; [ink] ‘Opoorage’ [JB]. 285×235/160.
Bacstrom, S. Ms.: 2.

ANTHERICACEAE

NZ4/184 **Arthropodium cirratum** (G. Forster) R. Brown ex Sims, *Curtis's bot. Mag.* **49**: t. 2350 (1822).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 82–83 ‘Anthericum [[grande]] latifolium’; Solander, D. Slip Catalogue **VIII**: 647–651.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] ‘Anthericum [[granifol]] latifolium’ [unknown]. 525×350/460.

Finished drawing: watercolours *r* [ink] ‘John Frederick Miller pinx^{t}·. 1775..’. 525×350/455.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 48; Brown, R. Ms.: 11/260. 460×300/425; engraving proof *r* [pencil]; ‘Anthericium latifolium’; [unknown]; ‘G. Smith’ [unknown]; col. engraving 1987 *BF*: pl. 558.

PHORMIACEAE

NZ4/185 **Dianella nigra** Colenso, *Trans. Proc. N.Z. Inst.* **16**: 339 (1884).

Specimen: Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 176, **2**: 215–216, 306 ‘Anthericum [[xiphiodes]] ensatum’; Solander, D. Slip Catalogue **VIII**: 679–682.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘yellow’ ‘yellow’ ‘green’ [SP]; *v* ‘The serraturae are made too strong’ [unknown]; ‘the inner petals white the outer ones pale green ting’d w^{t} dirty purple the filaments yellow anthera pale brown the germen green the buds dark purple mixt wt green.’ [SP]; ‘61’ [unknown]; ‘Anthericum ansatum’ [unknown]. 525×345/480.

Finished drawing: watercolours *r* [ink] ‘Cleveley Jun^{r}. Pinx^{t}. 1775.’. 520×350/470.

Copper plate: [JG]; Bacstrom, S. Ms.: 48; Brown, R. Ms.: 11/262. 460×295/445; engraving proof *r* [pencil] ‘Anthericum ensatum’ [unknown]; col. engraving 1987 *BF*: pl. 559

PANDANACEAE

NZ4/186 **Freycinetia baueriana** Endlicher subsp. **banksii** (Cunningham) Stone, *N.Z. Jl Bot.* **11** (2): 242 ‘(1973).

Specimen: *(syntype).

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 116–117, **2**: 211–215 ‘Pandanus [[angustifolius]] [[digitatus]] inclinans’; Solander, D. Slip Catalogue **XX**: 15–20.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] ‘longish [?]’ [unknown]; *v* ‘inclinans’ [unknown]. 525×345/415.

Finished drawing: watercolours *r* [ink] Fred^{k} Polydore Nodder [?]’. 520×350/440.
Bacstrom, S. Ms.: 140

Notes: in Bacstrom the artist is entered as Nodder.

RESTIONACEAE

NZ4/187 **Leptocarpus similis** Edgar, *N.Z. Jl Bot.* **6** (4): 468 (1968).

Specimen: 4 sheets, New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 43–45, 53–54, 56–57 ‘Restio simplex’; Solander, D. Slip Catalogue **XX**: 65–71.

Outline drawing: pencil outlines with colour references [SP]; *r* [ink] ‘2’ ‘1’ ‘2’ ‘3’‘5’‘6’‘d’‘e’‘a’‘b’‘1’‘2’‘3’‘4’‘5’ [SP]; *v* [pencil] ‘25.’ [unknown]’; ‘Restio tenax’ [unknown]; [ink] ‘Taoneroa’ [JB]. 465×285/445.
Bacstrom, S. Ms.: 132.

CYPERACEAE

NZ4/188 **Desmoschoenus spiralis** (A. Richard) Hooker f., *Fl. nov.-zel.* (1): 272 (1853).

Specimen: Tolaga Bay, Taboulo Island, Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **1**: 186–188 ‘Scirpus [[adnatus]] frondosus’; Solander, D. Slip Catalogue **II**: 709–712.

Outline drawing: pencil outlines with colour references [SP]. 520×350/480.

Finished drawing: watercolours *r* [ink] ‘J. Miller [?]’; ‘Scirpus frondosus’ [unknown]. 525×350/470; see Carr, D. J. [Ed.] 1983 pl. 120 p. 126.

Copper plate: [WT]; Bacstrom, S. Ms.: 12; Brown, R. Ms.: 2/41. 460×285/450; engraving proof *r* [pencil] 'Scirpus frondosus' [unknown]; col. engraving 1987 *BF*: pl. 560.

PODOCARPACEAE

NZ4/189 Prumnopitys taxifolia (Solander ex D. Don) Laubenfels, *Blumea* **24**: 190 (1978).

Specimen: 2 sheets, Oohoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 201, 205–207 '[[Juniperoides]] Dacrydium taxifoli[[a]]um'; Solander, D. Slip Catalogue **XX**: 459–463.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '85' [unknown]; 'Juniperoides taxifoli' [unknown]; [ink] 'Oouhoarage.' [JB]. 465×275/400.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder Pinx^{t}. 1780'. 525×350/380; see Beaglehole, J. C. 1962 **2**: pl. 12.

Copper plate: [DM]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 27/664. 460×295/380; engraving proof *r* [pencil] 'Dacrydium taxifolium' [unknown]; 'D. Mackenzie' [unknown]; col. engraving 1987 *BF*: pl. 561.

NZ4/190 Dacrydium cupressinum Solander ex Lambert, *Descr. Pinus* **1**, appendix: 93, t. 41 (1806).

Specimen: Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 204–205 '[[Juniperoides cupressina]] Dacrydium thujoides'; Solander, D. Slip Catalogue **XX**: 465–468.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] '8[[0]]7' [unknown]; 'Juniperoides cupressina' 'thuyoides [?]' [unknown]; [ink] 'Oouhoorage[?]' [JB]. 360×265/260.

Finished drawing: watercolours *r* [ink] 'Fred^{k}. Polydore Nodder [?]'. 525×345/270.

Copper plate: [GS]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 27/665. 460×295/265; engraving proof *r* [pencil] 'Dacridium cupriscinum' [unknown]; 'G^{d} Sibelius' [unknown]; col. engraving *BF*: pl. 562 [in preparation].

NZ4/191 Dacrycarpus Dacrydioides (A. Richard) Laubenfels, *J. Arnold Arbor.* **50**: 337 (1969).

Specimen: Oohoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) **2**: 293 '[[Juniperoides quinquefaria]] Dacrydium cupressinum'; Solander, D. Slip Catalogue **XX**: 469–470.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Dacrydium cupressinum' [unknown]; *v* '124.' [unknown]; 'Juniperoides b faria' [unknown]; [ink] 'Toterra nue' [JB]. 455×280/350.

Finished drawing: watercolours. 525×345/445.
Bacstrom, S. Ms.: 134.

GLEICHENIACEAE

NZ4/192 **Gleichenia dicarpa** R. Brown, *Prodr.*: 161 (1810).

Specimen: Opoorage.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2** : 331 [index entry only, no description] '[[Pteroides pulchemiam]] Pteris lobulata'; Solander, D. Slip Catalogue **XXII**: 281–282.

Finished drawing: watercolour, pen and ink *r* [ink] 'John Miller [?]'; 'Pteris lobulata' [JM]. 525×345/330.

Copper plate: [GS]; Bacstrom, S. Ms.: 144: Brown, R. Ms.; 15/375. 460×300/330; engraving proof *r* [pencil] 'Pteris lobulata' [unknown]; col. engraving *BF*: pl. 563 [in preparation].

CYATHEACEAE

NZ4/193 **Cyathea medullaris** (G. Forster) Swartz in Schrader, *J. Bot. Göttingen* 1800 (2). 94 (1802).

Specimen: Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 331 [index entry only, no description] 'Polypodium [[supradecam]] aridum'; Solander, D. Slip Catalogue **XXII**: 167.

Finished drawing: watercolour, pen and ink *r* [ink] 'John Miller del. [?]'; 'Polypodium aridum.' [JM]. 520×345/465.
Bacstrom, S. Ms.: 144.

DENNSTAEDTIACEAE

NZ4/194 **Paesia scaberula** (A. Richard) Kuhn, *Chaetop.*: 27 (1882).

Specimen: see NZ4/199.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 332 index entry only, no description 'Pteris eglantissima'; Solander, D. Slip Catalogue **XXII**: 274–275.

Finished drawing: watercolour, pen and ink *r* [ink] 'J. Miller del.:'; 'Pteris elegantissima.' [JM]. 525×345/385.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 144; Brown; R. Ms.: 19/473. 460×295/375; engraving proof *r* [pencil] 'Pteris elegantissima' [unknown]; col. engraving *BF*: pl. 564 [in preparation].

NZ4/199 **Paesia scaberula** (A. Richard) Kuhn, *Chaetop.*: 27 (1882).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only, no description] 'Pteris eglantissima'; Solander, D. Slip Catalogue **XXII**: 274–275.

Finished drawing: watercolour, pen and ink *r* [ink] 'J. Miller del:'; 'Pteris elegantissima' [JM]. 515×345/440.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/440. 460×295/415; engraving proof *r* [pencil] 'Pteris elegantissima' [unknown]; see Stearn, W. T. 1968 *Endeavour* **XXVIII**: 8, fig. 9; col. engraving *BF*: pl. 565 [in preparation].

NOTES: this drawing was inadvertently numbered incorrectly in the original numbering sequence, it logically follows drawing NZ4/194 as they are both in the Dennstaedtiaceae family; see also NZ4/213.

NZ4/195 HYPOLEPIS LACTEA Brownsey & Chinnock, *N.Z. Jl Bot.* **22**: 55 (1984).

SPECIMEN: Admiralty Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only, no description] 'Polypodium viscidum'; Solander, D. Slip Catalogue **XXII**: 176–177.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'Polypodium viscidum' [JM]. 525×345/515.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/450. 460×300/425; engraving proof *r* [pencil] 'Polypodium viscidum' [unknown]; col. engraving *BF*: pl. 566 [in preparation].

SINOPTERIDACEAE

NZ4/196 CHEILANTHES DISTANS (R. Brown) Mettenius, *Abh. senckenb. naturforsch. Ges.* **3**: 69 (1859).

SPECIMEN: Admiralty Bay.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 315 [index entry only, no description] 'Adiantum hirtum'; Solander, D. Slip Catalogue **XXII**: 312–313.

FINISHED DRAWING: watercolour, pen and ink *v* [ink] 'Adiantum hirtum.' [unknown]. 525×345/205.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 19/475. 460×295/205; engraving proof *r* [pencil] 'Adiantum hirtum' [unknown]; col. engraving *BF*: pl. 567 [in preparation].

PTERIDACEAE

NZ4/197 PTERIDIUM ESCULENTUM (G. Forster) Cockayne, *Rep. Bot. Surv. Tongariro Nat. Park*: 34 (1908).

SPECIMEN: 2 sheets, New Zealand.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) **1**: 57–58 'Pteris [[crenulata]] esculenta'; Solander, D. Slip Catalogue **XXII**: 270–271.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'John Miller del. 1772'; 'Pteris esculenta' [JM]. 525×345/460.

Copper plate: [GS]; Bacstrom, S. Ms.: 144; Brown, S. Ms.: 18/441. 460×300/405; engraving proof *r* [pencil] 'Pteris esculenta' [unknown]; col. engraving *BF*: pl. 568 [in preparation].

NZ4/198 **Pteris tremula** R. Brown, *Prodr.*: 154 (1810).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 331 [index entry only, no description] 'Pteris [[marginata]] tremula'; Solander, D. Slip Catalogue **XXII**: 276–277.

Finished drawing: watercolour, pen and ink *r* [ink] 'J. Miller del'; 'Pteris tremula' [JM]. 525×340/510.

Copper plate: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/442. 460×295/410; engraving proof *r* [pencil] 'Pteris tremula' [unknown]; col. engraving *BF*: pl. 569 [in preparation].

Notes: NZ4/199. The entry for drawing number NZ4/199 follows NZ4/194. The drawing was inadvertently numbered incorrectly in the original numbering sequence, it logically follows drawing NZ4/194 as they both are in the Dennstaedtiaceae family.

NZ4/200 **Pteris macilenta** A. Richard, *Voy. Astrolabe, Botanique* (1): 82, t. 12 (1832).

Specimen: 3 sheets, New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 331 [index entry only, no description] 'Pteris [[sinnuata]] opaca'; Solander, D. Slip Catalogue **XXII**: 278–279.

Finished drawing: watercolour, pen and ink *r* [ink] 'John Miller del.'; 'Pteris opaca' [JM]. 525 ×345/525.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 144; Brown, R. MS.: 18/443. 460×300/395; engraving proof *r* [pencil] 'Pteris opaca' [unknown]; col. engraving *BF*: pl. 570 [in preparation].

ASPLENIACEAE

NZ4/201 **Asplenium flabellifolium** Cavanilles, *Descr. pl.* **1**: 257 (1801).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 315 [index entry only, no description] 'Asplenium radicans'; Solander, D. Slip Catalogue **XXII**: 249–250.

Finished drawing: watercolour, pen and ink *r* [ink] 'Asplenium radicans' [JM]. 510×345/220.

Copper plate: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/445. 460×300/210; engraving proof *r* [pencil] 'Asplenium radicans' [unknown]; col. engraving *BF*: pl. 571 [in preparation].

NZ4/202 **ASPLENIUM OBLONGIFOLIUM** Colenso, *Tasm. J. nat. Sci.* **2**: 171 (1845).

SPECIMEN: Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 314 [index entry only, no description] 'Asplenium [[gladiatum]] lucidum'; Solander, D. Slip Catalogue **XXII**: 228–229.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'John Miller del. 1772'; 'Asplenium lucidum' [JM]. 525×345/445.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 15/367. 465×300/395; engraving proof *r* [pencil] 'Asplenium lucidum' [unknown]; col. engraving *BF*: pl. 572 [in preparation].

NZ4/203 **ASPLENIUM POLYODON** G. Forster, *Fl. ins. austr.*: 80 (1786).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 314 [index entry only, no description] 'Asplenium [[grandiflora]] polyodon'; Solander, D. Slip Catalogue **XXII**: 234-235.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'Asplenium polyodon.' [JM]. 525×345/435.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/444. 460×300/430; engraving proof *r* [pencil] 'Asplenium polyodon' [unknown]; col. engraving *BF*: pl. 573 [in preparation].

NZ4/204 **ASPLENIUM TERRESTRE** Brownsey subsp. **MARITIMUM** Brownsey, *N.Z. Jl Bot.* **15** (1): 74, t. 27 (1977).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 315 [index entry only, no description] 'Asplenium rigidum'; Solander, D. Slip Catalogue **XXII**: 245–246.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'Asplenium rigidum.' [JM]. 520×345/200.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 15/370. 455×295/235; engraving proof *r* [pencil] 'Asplenium rigidum' [unknown]; col. engraving *BF*: pl. 574 [in preparation].

DRYOPTERIDACEAE

NZ4/205 **POLYSTICHUM RICHARDII** (Hooker) J. Smith, *Hist. Fil.*: 220 (1875).

SPECIMEN: 2 sheets, Tegadu Bay, Tolaga Bay, Opoorage, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only no description] 'Polypodium [[rigidum]] coriaceum α'; Solander, D. Slip Catalogue **XXII**: 206–207.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'J. Miller del:'; 'Polypodium coriaceum. a.' [JM]. 520×345/440.

Copper plate: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 15/373. 460×295/415; engraving proof *r* [pencil] 'Polypodium coriaceum *α*' [unknown]; col. engraving *BF*: pl. 575 [in preparation].

NZ4/206 **Polystichum richardii** (Hooker) J. Smith, *Hist. Fil.*: 220 (1875).

Specimen: Tegadu Bay, Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only, no description] 'Polypodium coriaceum *β*'; Solander, D. Slip Catalogue **XXII**: 206–207.

Finished drawing: watercolour, pen and ink *r* [ink] 'J. Miller del:'; 'Polypodium coriaceum *β*' [JM]. 525×345/345.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 15/374. 465×295/345; engraving proof *r* [pencil] 'Polypodium coriaceum *β*' [unknown]; col. engraving *BF*: pl. 576 [in preparation].

NZ4/207 **Lastreopsis microsora** (Endlicher) Tindale subsp. **pentangularis** (Colenso) Tindale, *Contrib. N.S.W. natn. Herb.* **3**: 334 (1965).

Specimen: *.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 331 [index entry only, no description] 'Polypodium flaccidum'; Solander, D. Slip Catalogue **XXII**: 152.

Finished drawing: pencil, watercolour, pen and ink *r* [ink] 'J. Miller [?]'; 'Polypodium flaccidum' [JM]. 520×345/365.
Bacstrom, S. Ms.: 144.

NZ4/208 **Lastreopsis glabella** (Cunningham) Tindale, *Victorian Nat.* **73**: 183 (1957).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only, no description] 'Polypodium [[tenerum fr. rigid.]] formosum'; Solander, D. Slip Catalogue **XXII**: 165–166.

Finished drawing: watercolour, pen and ink *r* [ink] 'Polypodium formosum.' [JM]. 520×345/325.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/448. 460×300/330; engraving proof *r* [pencil] 'Polypodium formosum' [unknown]; col. engraving *BF*: pl. 577 [in preparation].

NZ4/209 **Lastreopsis velutina** (A. Richard) Tindale, *Victorian Nat.* **73**: 184 (1957).

Specimen: 2 sheets, 1 – Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 331 [index entry only, no description] 'Polypodium [[pilosuiscu]] [[opertum]] speluncae'; Solander, D. Slip Catalogue **XXII**: 208–209.

Finished drawing: watercolour, pen and ink *r* [ink] 'John Miller del.: 17 [?]'; 'Polypodium speluncae' [JM]. 525×345/420.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/449. 460×295/415; engraving proof *r* [pencil] 'Polypodium speluncae' [unknown]; col. engraving *BF*: pl. 578 [in preparation].

GRAMMITACEAE

NZ4/210 **CTENOPTERIS HETEROPHYLLA** (Labillardière) Tindale, *Am. Fern J.* **41** (4): 100 (1951).

SPECIMEN: New Zealand.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 315 [index entry only, no description] 'Asplenium polypodioides'; Solander, D. Slip Catalogue **XXII**: 242–243.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'Asplenium polypodioides' [JM]. 520×345/160.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 15/368. 455×295/160; engraving proof *r* [pencil] 'Asplenium polypodioides' [unknown]; col. engraving *BF*: pl. 579 [in preparation].

POLYPODIACEAE

NZ4/211 **PHYMATOSORUS SCANDENS** (G. Forster) Pichi-Sermolli, *Webbia* 28: 459 (1973).

SPECIMEN: Tolaga Bay, Tegadu Bay, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only, no description] 'Polypodium [[reptans]] scandens'; Solander, D. Slip Catalogue **XXII**: 109–110.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'Polypodium scandens' [unknown]. 520×350/415.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 19/474. 460×295/410; engraving proof *r* [pencil] 'Polypodium scandens' [unknown]; col. engraving *BF*: pl. 580 [in preparation].

NEPHROLEPIDACEAE

NZ4/212 **ARTHROPTERIS TENELLA** (G. Forster) J. Smith ex Hooker f., *Fl. nov.-zel.* (2): 43, t. 82 (1854).

SPECIMEN: Opoorage, Tolaga Bay, Totara nui.

MANUSCRIPT: Solander, D. Pl. Austral. (NZ) Index **2**: 331 [index entry only, no description] 'Polypodium [[serpens]] funiculus'; Solander, D. Slip Catalogue **XXII**: 116–117.

FINISHED DRAWING: watercolour, pen and ink *r* [ink] 'Polypodium Funiculus' [JM]. 525×350/330.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/446. 460×295/335; engraving proof *r* [pencil] 'Polypodium funiculus' [unknown]; col. engraving *BF*: 581 [in preparation].

DENNSTAEDTICEAE

NZ4/213 **Hypolepis rufobarbata** (Colenso) Wakefield, *Victorian Nat.* **72**: 159 (1956).

Specimen: New Zealand.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only, no description] 'Polypodium [[villoscuisculum]] lanuginosum'; Solander, D. Slip Catalogue **XXII**: 153–154.

Finished drawing: watercolour, pen and ink *r* [ink] 'Polypodium lanuginosum.' [JM]. 520×350/255.

Copper plate: [GS]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 18/447. 460×300/250; engraving proof *r* [pencil] 'Polypodium lanuginosum' [unknown]; col. engraving *BF*: pl. 582 [in preparation].

Notes: see also NZ4/194 and N24/199.

THELYPTERIDACEAE

NZ4/214 **Pneumatopteris pennigera** (G. Forster) Holttum, *Blumea* **21**: 305 (1973).

Specimen: Tolaga Bay, Opoorage, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2**: 332 [index entry only, no description] 'Polypodium [[obtusatum]] nymphale'; Solander, D. Slip Catalogue **XXII**: 146–147.

Finished drawing: watercolour, pen and ink *r* [ink] 'John Miller del: 1772'; 'Polypodium nymphale.' [JM]. 525×355/455.

Copper plate: [GS]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 15/372. 460×295/425; engraving proof *r* [pencil] 'Polypodium nymphale' [unknown]; col. engraving *BF*: pl. 583 [in preparation].

OSMUNDACEAE

NZ4/215 **Leptopteris hymenophylloides** (A. Richard) C. Presl, *Suppl. tent. pterid.*: **71** (1846).

Specimen: 2 sheets, Totara nui.

Manuscript: Solander, D. Pl. Austral. (NZ) Index **2** : 332 [index entry only, no description] 'Polypodium pellucidum'; Solander, D. Slip Catalogue **XXII**: 157–158.

Finished drawing: watercolour, pen and ink *r* [ink] 'Polypodium pellucidum.' [JM]. 520×350/450.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 144; Brown, R. Ms.: 15/371. 460×295/370; engraving proof *r* [pencil] 'Polypodium pellucidum' [unknown]; col. engraving *BF*: pl. 584 [in preparation].

SOCIETY ISLANDS

CAPPARIDACEAE

SI1/1 STEPHANIA HERNANDIFOLIA (Willdenow) Walpers, *Repert.* **1**: 96 (1842).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 165–166 'Menispermum peltatum'; Solander, D. Slip Catalogue **XX**: 409–412; Banks, J. Cat. Pl.: 29.

FINISHED DRAWING: watercolours *r* [ink] 'Menispermum peltatum' [SP]; 'Sydney Parkinson pinx^t 1769.'; 'A a b c d' 'B' [SP]; *v* [pencil] '97.' [unknown]; 'Menispermum peltatum' [unknown]; [ink] 'Huahine' [JB]. 475×280/365; see Carr, D. J. [Ed]. 1983 pl. 71 p. 77, col. pl.
Bacstrom, S. Ms.: 134.

CRUCIFERAE

SI1/2 LEPIDIUM BIDENTATUM Montin, *Nova Acta physico-med.* **6**: 324–327, *t. Va*, (1778).

SPECIMEN: 3 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 128 'Lepidium acre'; Solander, D. Slip Catalogue **XIV**: 19–22; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Lepidium acre.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] '55' [unknown]; '[?] acre' [unknown]; [ink] 'Ulhietea' [JB]. 470×285/405.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 14/333. 460×295/400; engraving proof *r* [pencil] 'Lepidium acre' [unknown]; col. engraving *BF*: pl. 585 [in preparation].

CAPPARIDACEAE

SI1/3 CRATAEVA RELIGIOSA G. Forster, *Pl. esc.*: 45 (1786).

SPECIMEN: Otaheite (syntype).

MANUSCRIPT: Solander, D. Pl. Otaheit.: 24, 28–30 'Crateva frondosa'; Solander, D. Slip Catalogue **XI**: 293–300; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours: *r* [ink] 'Crataeva frondosa.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] 'The flowers that come last out are quite white gaining the purple colours by degrees the underside of the leaves the same colour as the upper capsule is dark green [?] all cover'd 'dirty white' [SP]; '45.' [unknown]; 'Crataeva frondosa' [unknown]; [ink] 'Ot h' [JB]. 470×285/445; see Beaglehole, J. C. 1962 **1**: pl. 29.

Copper plate: [GS]; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 8/188. 460×295/44; engraving proof *r* [pencil] 'Crateva frondosa' [unknown]; col. engraving *BF*: pl. 586 [in preparation].

FLACOURTIACEAE

SI1/4 **Xylosma suaveolens** (Forster & G. Forster) G. Forster, *Fl. ins. austr.*: 72 (1786).

Specimen: Otaheite.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Slip Catalogue **XXI**: 525–528 'Rhamnoides axillaris'; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Merretia axillaris.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '36.' [unknown]; 'Merrettia axillaris' [unknown]; [ink] 'Otahite' [JB]. 475×280/335; see Cook, J. 1977 p. 79 pl. VII, col. pl. Bacstrom, S. Ms.: 2.

PORTULACACEAE

SI1/5 **Portulaca lutea** Solander ex G. Forster, *Pl. esc.*: 72 (1786).

Specimen: * (holotype).

Manuscript: Solander, D. Pl. Otaheit.: 26 'Portulaca lutea'; Solander, D. Slip Catalogue **XI**: 337–340; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Portulacca lutea.' [SP]; 'Sydney Parkinson pinx^{t} 1769'; *v* 'Ulhietea' [JB]. 370×265/315.

Copper plate: [GS]; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 12/284. 460×295/315; engraving proof *r* [pencil] 'Portulaca lutea' [unknown]; col. engraving *BF*: pl. 587 [in preparation].

GUTTIFERAE

SI1/6 **Calophyllum inophyllum** Linnaeus, *Sp. pl.* **I**: 513 (1753).

Specimen: 2 sheets, Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 158–159 'Calophyllum inophyllum'; Solander, D. Pl. Ins. Ocean. Pac.: 4; Solander, D. Slip Catalogue **XII**: 327–330; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Calophyllum inophyllum' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '50.' [unknown]; 'Calophyllum inophyllum' [unknown]. 470×285/415; see Beaglehole, J. C. 1962 **I**: pl. 34a. Bacstrom S. Ms.: 90.

MALVACEAE

SI1/7 URENA LOBATA Linnaeus, *Sp. pl.* **2**: 692 (1753).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 25 'Urena lobata'; Solander, D. Slip Catalogue **XIV**: 641–644; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Urena lobata' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '51.' [unknown]; 'Urena lobata' [unknown]; [ink] 'Otahite' [JB]. 470×280/395.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 16/385. 460×300/395; engraving proof *r* [pencil] 'Urena lobata' [unknown]; col. engraving *BF*: pl. 588 [in preparation].

SI1/8 HIBISCUS TILIACEUS subsp. HASTATUS (Linnaeus f.) Borssum Waalkes, *Blumea* **14**: 36 (1966).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 149 'Hibiscus tricuspis'; Solander, D. Pl. Ins. Ocean. Pac.: 18; Solander, D. Slip Catalogue **XIV**: 689–692; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Hibiscus tricuspis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/410.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 102; Brown, R. Ms.: 14/335. 460×300/410; engraving proof *r* [pencil] 'Hibiscus tricuspis' [unknown]; 'Sibelius' [unknown]; col. engraving *BF*: pl. 589 [in preparation].

SI1/9 ABELMOSCHUS MOSCHATUS Medikus, *Malvenfam.*: 46 (1787).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 32 'Hibiscus abelmoschus'; Solander, D. Slip Catalogue **XIV**: 705–708; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Hibiscus Abelmoschus.' [SP]; 'Sydney Parkinson pinx^{t} 1769'; *v* [pencil] '60.' [unknown]; 'Hibiscus Abelmoschus' [unknown]. 470×280/395; see Beaglehole, J. C. 1962 **1**: pl. IV, col. pl.; Carr, D. J. [Ed.] 1983 pl. 72 p. 78, col. pl.
Bacstrom, S. Ms.: 102.

SI1/10 PAVONIA PAPILIONACEA Cavanilles, *Diss.* **3**: 140, t. 49, f. 2 (1787).

SPECIMEN: 3 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 66–67, 69 'Hibiscus papilionaceus'; Solander, D. Slip Catalogue **XIV**: 671–675; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Hibiscus papilionaceus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] 'N° 58.' [unknown]; 'Hibiscus papilionaceus' [unknown]; [ink] 'Otahite' [JB]. 365×265/315; see Carr, D. J. [Ed.] 1983 pl. 74 p. 82, col. pl.

Copper plate: [GS]; Bacstrom S. Ms.: 102; Brown, R. Ms.: 12/288. 465×295/315; engraving proof *r* [pencil] 'Hibiscus papilionaceus' [unknown]; col. engraving *BF*: pl. 590 [in preparation].

SI1/11 **Hibiscus rosa-sinensis** Linnaeus, *Sp. pl.* **2**: 694 (1753).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 2 'Hibiscus Rosa Sinensis'; Solander, D. Slip Catalogue **XIV**: 693–695; Banks, J. Cat. Pl.: 27.

Finished drawing: watercolours *r* [ink] 'Hibiscus Rosa Sinensis.' [SP]; 'Sydney Parkinson pinx^{t} 1769'; *v* [pencil] '57' [unknown]; 'Rosa sinensis' [unknown]. 470×285/360; see Carr. D. J. [Ed.] 1983 pl. 73 p. 79, col. pl.
Bacstrom, S. Ms.: 102

SI1/12 **Thespesia populnea** (Linnaeus) Solander ex Correa, *Annls Mus. Hist. nat. Paris* **9**: 290 (1807).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 1 'Thespesia populnea'; Solander, D. Slip Catalogue **XIV**: 717–724; Banks, J. Cat. Pl.: 27; 1973 *CF*: pl. 5A *pro descr.*

Finished drawing: watercolours *r* [ink] 'Thespesia populnea.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '62' [unknown]; 'Thespesia' [unknown]. 470×285/410; see Cook, J. 1977 p. 74 pl. 2, col. pl.; Carr, D. J. [Ed.] 1983 pl. 75 p. 83, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 104; Brown, R. Ms.: 15/365. 460×300/410; engraving proof *r* [pencil] 'Thespesia populnea' [unknown]; engraving 1973 *CF*: pl. 5A; col. engraving *BF*: pl. 591 [in preparation]; see Adams, B. 1986 col. pl.

TILIACEAE

SI1/13 **Triumfetta procumbens** G. Forster, *Fl. ins. austr.*: 35 (1786).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 26, 127 'Triumfetta crassifolia'; Solander, D. Slip Catalogue **XI**: 311–314; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Triumfetta crassifolia.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '44' [unknown]; 'Triumfetta crassifolia' [unknown]; [ink] 'Otahite' [JB]. 365×265/305.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 8/181. 455×295/305; engraving proof *r* [pencil] 'Triumphetta crassifolia' [unknown]; col. engraving *BF*: pl. 592 [in preparation].

SI1/13b **Grewia crenata** (Forster & G. Forster) Schinz & Guillaumin in Sarasin & J. Roux, *Nova Caled.* **I**: 179 (1921).

Specimen: 2 sheets, Society Islands.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 152 'Grewia orientalis'; Solander, D. Slip Catalogue **XII**: 333–334; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Grewia orientalis β.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] '104.' [unknown]; 'Grewia orientalis' [unknown]; [ink] 'Otahite' [JB]. 470×285/355.
Bacstrom, S. Ms.: 124.

STERCULIACEAE

SI1/14 **COMMERSONIA BARTRAMIA** (Linnaeus) Merrill, *Interpr. Herb. amboin.*: 362 (1917).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 44–45 'Dasypogon canescens'; Solander, D. Slip Catalogue **VIII**: 185–188; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Dasypogon canescens.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 460×285/410.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 10/230. 460×295/405; engraving proof *r* [pencil] 'Dasypogon canescens' [unknown]; col. engraving *BF*: pl. 593 [in preparation].

RHAMNACEAE

SI1/15 **COLUBRINA ASIATICA** (Linnaeus) Brogniart, *Annls Sci. nat.*, sér. 1, **10**: 369 (1827).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 19 'Rhamnus laevigatus'; Solander, D. Slip Catalogue **VI**: 233–236; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Rhamnus laevigatus.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 470×285/415.
Bacstrom, S. Ms.: 34.

SI1/16 **ALPHITONIA ZIZYPHOIDES** (Solander ex Sprengel) A. Gray, *U.S. Explor. Exped., Phan.*: 278 (1854).

SPECIMEN: Society Islands.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 121 'Zizyphoides argentea'; Solander, D. Slip Catalogue **XXI**: 531–533; Banks, J. Cat. Pl.: 31.

FINISHED DRAWING: watercolours [SP]; *v* [pencil] '105.' [unknown]; 'Zizyphoides argent' [unknown]. 465×280/360; see Carr, D. J. [Ed.] 1983 pl. 76 p. 85, col. pl.
[Not in Bacstrom.]

SAPINDACEAE

SI1/17 Dodonaea viscosa Jacquin, *Enum. syst. pl.*: 19 (1760).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 18–19 'Dodonaea viscosa a) acuta'; Solander, D. Slip Catalogue **IX**: 473–480; Banks, J. Cat. Pl.: 29.

Outline drawing: pencil outlines with colour references [SP]; *v* [pencil] 'The leaves & stalks the same colour as the female but paler the flowers pale yellow green. the leaves to be made broader near the top.' [SP]; '99' [unknown]; 'Dodonaea viscosa' [unknown]; [ink] 'Otahite' [JB]. 365×260/305.

Finished drawing: watercolours *r* [ink] 'Dodonaea viscosa'. [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '99.' [unknown]; 'Dodonaea viscosa' [unknown]. 360×255/310.

Copper plate: [GS]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 16/380. 466×301/350; [no engraving proof]; col. engraving *BF*: pl. 594 [in preparation].

ANACARDIACEAE

SI1/18 Spondias dulcis Parkinson, *J. voy. South Seas*: 39 (1773).

Specimen: 2 sheets, Otaheite (holotype).

Manuscript: Solander, D. Pl. Otaheit.: 12, 32–33 'Spondias dulcis'; Solander, D. Slip Catalogue **XI**: 117–123; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Spondias dulcis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×285/405; see Beaglehole, J. C. 1962 **I**: pl. VI, col. pl.; Stearn, W. T. 1968 *Endeavour* **XXVII**: p. 5 fig. 3, col. pl.; Allen, O. E. 1980 p. 136, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 76; Brown, R. Ms.: 7/165. 455×295/405; engraving proof *r* [pencil] 'Spondias dulcis' [unknown]; col. engraving *BF*: pl. 595 [in preparation].

LEGUMINOSAE

SI1/19 Vigna marina (Burman) Merrill, *Intepr. Herb. amboin.*: 285 (1917).

Specimen: 2 sheets, 1 – Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 2–4, 23 'Dolichos luteus'; Solander, D. Slip Catalogue **XV**: 201–206; Banks, J. Cat. Pl.: 27.

Finished drawing: watercolours *r* [ink] 'Dolichos luteus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '67.' [unknown]; 'Dolichos luteus' [unknown]; 'Atoojya' [unknown]. 285×470/245.
Bacstrom, S. Ms.: 106.

SI1/20 **CANAVALIA CATHARTICA** Thouars in Desvaux, *J. Bot. appl.* **1**: 81 (1913).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 69–70 'Glycine speciosa'; Solander, D. Slip Catalogue **XV**: 233–238; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Glycine speciosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/395.

COPPER PLATE: [? Smith]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 14/344. 460×295/390; engraving proof *r* [pencil] 'Glycine speciosa' [unknown]; col. engraving *BF*: pl. 596 [in preparation].

SI1/21 **CANAVALIA ROSEA** (Swartz) de Candolle, *Prodr.* **2**: 404 (1825).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 41 'Glycine rosea'; Solander, D. Slip Catalogue **XV**: 227–232; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Glycine rosea.' [SP]; 'Sydney Parkinson pinx^{t} 1769. 290×470/250; see Carr, D. J. [Ed.] 1983 pl. 77 p. 86, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 14/341. 295×455/250; engraving proof *r* [pencil] 'Glycine rosea' [unknown]; col. engraving *BF*: pl. 597 [in preparation].

SI1/22 **SESBANIA COCCINEA** (Linnaeus f.) Poiret, *Encycl.* **7**: 127 (1806) (as. *Sesban. c.*).

SPECIMEN: Otaheite.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 9 'Aeschynomene speciosa'; Solander, D. Slip Catalogue **XV**: 357–361; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Aeschinomene speciosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×290/430; see Cook, J. 1977 p. 75 pl. 111, col. pl.; Carr, D. J. [Ed.] 1983 pl. 79 p. 87, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 14/350. 460×295/430; engraving proof *r* [pencil] 'Aeschinomene speciosa' [unknown]; col. engraving *BF*: pl. 598 [in preparation].

SI1/23 **TEPHROSIA PISCATORIA** (Aiton) Persoon, *Syn. pl.* **2**: 329 (1807).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 23 'Galega piscatoria'; Solander, D. Slip Catalogue **XV**: 463–466; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Galega piscatoria.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '64' [unknown]; 'Galega piscatoria' [unknown]. 470×285/375; see Carr, D. J. [Ed.] 1983 pl. 78 p. 86, col. pl.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 108; Brown, R. Ms.: 7/167. 460×295/375; engraving proof *r* [pencil] 'Galega piscatoria' [unknown]; col. engraving *BF*: pl. 599 [in preparation].

SI1/24 ERYTHRINA VARIEGATA Linnaeus, *Herb. amb.*: 10 (1754).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 145–146 'Erythrina Corallodendron orientalis'; Solander, D. Slip Catalogue **XV**: 27–33; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Erythrina corallodendrum.' [SP]; 'Sydney Parkinson pinx 1769.'; *v* [pencil] 'The leaves both upper & p underside are [[pale]] grass green vein'd w^{t} lighter' [SP]. 470×290/335.
Bacstrom, S. Ms.: 106.

SI1/25 VIGNA ADENANTHA (G. Meyer) Maréchal, Mascherpa & Stainier, *Taxon* **27**: 202 (1978).

SPECIMEN: 4 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 48 'Phaseolus amoenus'; Solander, D. Slip Catalogue **XV**: 189–194; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Phaseolus – amoenus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '66.' [unknown]; 'Phaseolus amoenus' [unknown]. 280×445/230.

COPPER PLATE: [DM]; Bacstrom. S. Ms.: 106; Brown, R. Ms.: 14/343. 295×460/225; engraving proof *r* [pencil] 'Phaseolus amoenus' [unknown]; col. engraving *BF*: pl. 600 [in preparation].

SI1/26 INOCARPUS FAGIFER Parkinson, *J. Wash. Acad. Sci.* **31**: 95 (1941).

SPECIMEN: 5 sheets, 1 – Otaheite, 2 – 5 Society Islands (holotype series).

MANUSCRIPT: Solander, D. Pl. Otaheit.: 33–34, 38, 137 'Amotum fagiferum'; Solander, D. Pl. Ins. Ocean. Pac.: 16–17; Solander, D. Slip Catalogue **XV**: 725–731; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Amotum fagiferum.' [SP]; 'Sydney Parkinson pinx^{t} 1769'; *v* [pencil] '42 [?]' [unknown]; 'Amotum fagiferum' [unknown]. 460×285/430; see Carr, D. J. [Ed.] 1983 pl. 82 p. 90, col. pl.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 70; Brown, R. Ms.: 9/212. 455×295/425; engraving proof *r* [pencil] 'Amotum fagiferum' [unknown]; col. engraving *BF*: pl. 601 [in preparation].

CUNONIACEAE

SI1/27 WEINMANNIA PARVIFLORA, G. Forster, *Fl. ins. austr.*: 29 (1786).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 96, 97–98 'Weinmannia parviflora'; Solander, D. Slip Catalogue **X**: 61–64; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Merretia terminalis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×260/285.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 64; Brown, R. Ms.: 9/209. 455×290/285; engraving proof *r* [pencil] 'Weinmannia parviflora' [unknown]; col. engraving *BF*: pl. 602 [in preparation].

COMBRETACEAE

SI1/28 **TERMINALIA GLABRATA** G. Forster, *Pl. esc.*: 52 (1786).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 104–106 'Terminalia glabrata'; Solander, D. Slip Catalogue **XXI**: 155–159; Banks, J. Cat. Pl.: 29.

FINISHED DRAWING: watercolours *r* [ink] 'Terminalia – glabrata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '102' [unknown]; 'Terminalia glabrata' [unknown]. 470×280/395.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 138; Brown, R. Ms.: 16/388. 460×295/385; engraving proof *r* [pencil] 'Terminalia glabrata.' [unknown]; col. engraving *BF*: pl. 603 [in preparation].

MYRTACEAE

SI1/29 **METROSIDEROS COLLINA** (Forster & G. Forster) A. Gray, *U.S. Explor. Exped., Phan.*: 558, t. 68 (1854).

SPECIMEN: 7 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 9, 18, 98 'Metrosideros spectabilis'; Solander, D. Slip Catalogue **XI**: 531–536; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Metrosideros spectabilis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '48.' [unknown]; 'Metrosideros spectabilis' [unknown]. 365×260/325; see Carr, D. J. [Ed.] 1983 pl. 80 p. 88, col. pl.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 17/414. 460×295/325; engraving proof *r* [pencil] 'Metrosideros spectabilis' [unknown]; 'G. Smith engr.' [unknown]; col. engraving *BF*: pl. 604 [in preparation].

SI1/30 **DECASPERMUM FRUTICOSUM** Forster & G. Forster, *Char. gen. pl.*: 74, t. 37 (1775).

SPECIMEN: Otaheite.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 2 'Psidium myrtifolium'; Solander, D. Slip Catalogue **XI**: 567–570; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Psidium myrtifolium.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '51' [unknown]; 'Psidium myrtifolium' [unknown]; [pencil] 'Huahine' [JB]. 365×260/295.

Copper plate: [GS]; Bacstrom, S. Ms.: 84; Brown, R. Ms.: 8/198. 460×295/290; engraving proof *r* [pencil] 'Psidium myrtifolium' [unknown]; col. engraving *BF*: pl. 605 [in preparation].

BARRINGTONIACEAE

SI1/31 Barringtonia asiatica (Linnaeus) Kurz, *J. Asiat. Soc. Beng.* **46** (2): 70 (1877).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 5, 13–15, 20–21 'Butonica splendida'; Solander, D. Slip Catalogue **XIV**: 755–761; Banks, J. Cat. Pl.: 27.

Outline drawing: 1 – pencil outlines *r* [pencil] 'A' 'the convolution of the stamina within the bud' [unknown]; *v* 'Nº 31' [unknown]; 'Butonica marisonard' [unknown]. 374×258/150, 160; 2 – pencil outlines *r* [pencil] 'a' [unknown]. 321×204/300; 3 – pencil outlines *v* [pencil] '56' [unknown]; 'Butonica splendida' [unknown]. 453×295/422; 4 – pencil outlines with colour references [SP]; *v* [pencil] 'the fruit is bright grass green when dry dark brown' [SP]; '56' [unknown]; 'Butonica splendida' [unknown]. 467×284/409.

Finished drawing: watercolours [SP]; *v* [pencil] 'Mem the stamina are made rather too short [SP]; '56.' [unknown]; 'Butonica splendida' [unknown]; [ink] 'Otahite' [JB]. 460×280/440 see Beaglehole, J. C. 1962 **I**: pl. v, col. pl.

MELASTOMATACEAE

SI1/32 Melastoma malabathrica Linnaeus, *Sp. pl.* **I**: 390 (1753) *sensu lato*.

Specimen: *.

Manuscript: Solander, D. Pl. Otaheit.: 16, 139 'Melastoma malabathrica'; [not in Solander, D. Slip Catalogue]; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Melastoma malabathrica.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×265/280.
Bacstrom, S. Ms.: 72.

CUCURBITACEAE

SI1/33 Zehneria grayana (Cogniaux) Fosberg & Sachet, *Smithson. Contr. Bot.* **47**: 12 (1981).

Specimen: 3 sheets, Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 170 'Cucumis maderaspatanus'; Solander, D. Slip Catalogue **XIX**: 715–718; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Cucumis Maderaspatanus.' [SP]; 'Sydney Parkinson pinx 1769.'; *v* pencil 'N° [[44]] 90' [unknown]; 'Cucumis maderaspatanus' [unknown]. 470×280/400; see Carr, D. J. [Ed.] 1983 pl. 81 p. 89.
Bacstrom, S. Ms.: 128.

SI1/34 **BENINCASA HISPIDA** (Thunberg) Cogniaux in A. de Candolle, *Monogr. phan.* **3**: 513 (1881).

SPECIMEN: 3 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 60–61, 179 'Cucurbita pruriens'; Solander, D. Slip Catalogue **XIX**: 705–708; Banks, J. Cat. Pl. 28.

FINISHED DRAWING: watercolours *r* [ink] 'Cucurbita pruriens' [SP]; 'Sydney Parkinson pinx^t 1769'; *v* [pencil] 'Cucurbita pruriens' [unknown]. 465×275/405.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 16/391. 460×295/405; engraving proof *r* [pencil] 'Cucurbita pruriens' [unknown]; col. engraving *BF*: pl. 606 [in preparation].

SI1/35 **CUCUMIS MELLO var. AGRESTIS** Naudin, *Annls Sci. nat.*, sér. 4, **11**: 73 (1859).

SPECIMEN: 3 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 10–11, 61, 179 'Cucurbita aspera'; Solander, D. Slip Catalogue **XIX**: 709–712; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Cucurbita aspera.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 465×275/380.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 16/393. 460×295/375; engraving proof *r* [pencil] 'Cucurbita aspera' [unknown]; col. engraving *BF*: pl. 607 [in preparation].

SI1/36 **LUFFA CYLINDRICA var. LEIOCARPA** (F. Mueller) Naudin, *Annls Sci. nat.*, sér. 4, **12**: 121 (1859).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 11, 61, 76 'Cucurbita multiflora'; Solander, D. Slip Catalogue **XIX**: 701–704; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Cucurbita multiflora.' [SP]; 'Sydney Parkinson pinx 1769.'; *v* [pencil] '80' [unknown]; 'Cucurbita multiflora' [unknown]. 280×465/250.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 16/392. 300×460/240; engraving proof *r* [pencil] 'Cucurbita multiflora' [unknown]; col. engraving *BF*: pl. 608 [in preparation].

RUBIACEAE

SI1/37 **GUETTARDA SPECIOSA** Linnaeus, *Sp. pl.* **2**: 991 (1753).

SPECIMEN: 2 sheets, 1 – Otaheite, 2 – Huahine.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 130, 156 'Guettarda speciosa'; Solander, D. Slip Catalogue **XIX**: 195–200; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Guettarda speciosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '[?] of the [?] of the corolla white' [SP]; '94' [unknown]; 'Guettarda specios' [unknown]; [ink] 'Otahite' [JB]. 465×280/350; see Carr, D. J. [Ed.] 1983 pl. 83 p. 91, col. pl.
Bacstrom, S. Ms.: 128.

SI1/38 **TARENNA SAMBUCINA** (A. Gray) Durand ex Drake, *Ill. fl. ins. pacif.*: 190 (1890).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Slip Catalogue **III**: 795–797 'Rondeletioides tetragona'; Banks, J. Cat. Pl.: 31.

FINISHED DRAWING: watercolours *r* [ink] 'Rondeletia tetragona.' [SP]; 'Sydney Parkinson pinx^{t}. 1769.'; *v* [pencil] '106.' [unknown]; 'Rondeletia tetragon' [unknown]; [ink] 'Otahite' [JB]. 470×280/400.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 5/106. 455×295/400; engraving proof *r* [pencil] 'Rondeletia tetragona' [unknown]; col. engraving *BF*: pl. 609 [in preparation].

SI1/39 **CANTHIUM BARBATUM** (G. Forster) Seeman, *Flora vit.*: 132 (1866).

SPECIMEN: Otaheite (syntype).

MANUSCRIPT: Solander, D. Pl. Otaheit.: 16–17, 147 'Chiococca cymosa'; Solander, D. Slip Catalogue **V**: 585–591; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Chiococca cymosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×280/390; see Carr. D. J. [Ed.] 1983 pl. 84 p. 92.

COPPER PLATE: [WS]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 5/107. 460×295/395; engraving proof *r* [pencil] 'Ciocca cymosa' [unknown]; col. engraving *BF*: pl. 610 [in preparation].

SI1/40 **TIMONIUS POLYGAMUS** (G. Forster) Robinson, *Proc. Am. Acad. Arts Sci.* **45**: 408 (1910).

SPECIMEN: Huahine, Ulhietea.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 3 'Erithalis cymosa'; Solander, D. Slip Catalogue **V**: 693–696; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Erithalis cymosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×280/355.

COPPER PLATE: [JL]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 5/108. 460×295/355; engraving proof *r* [pencil] 'Erithalis cymosa' [unknown]; col. engraving *BF*: pl. 611 [in preparation].

SI1/41 TIMONIUS POLYGAMUS (G. Forster) Robinson, *Proc. Am. Acad. Arts. Sci.* **45**: 408 (1910).

SPECIMEN: Huahine.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 2 'Erithalis uniflora'; Solander, D. Slip Catalogue **V**: 697–700; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Erithalis uniflora.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×260/305; see Carr, D. J. [Ed.] 1983 pl. 86 p. 94, col. pl.

COPPER PLATE: [JL]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 5/109. 460×295/305; engraving proof *r* [pencil] 'Erithalis uniflora' [unknown]; col. engraving *BF*: pl. 612 [in preparation].

NAUCLEACEAE

SI1/42 NEONAUCLEA FORSTERI (Seeman) Merrill, *J. Wash. Acad. Sci.* **5**: 540 (1915).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 77–78, 175 'Nauclea orientalis'; Solander, D. Slip Catalogue **V**: 337–343; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Nauclea orientalis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×285/430.
Bacstrom, S. Ms.: 42.

RUBIACEAE

SI1/43 MORINDA CITRIFOLIA Linnaeus, *Sp. pl.* **I**: 176 (1753).

SPECIMEN: Otaheite, Huahine, Ulhietea, Otaha.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 100–101, 172–173 'Morinda citrifolia'; Solander, D. Slip Catalogue **V**: 661–668; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Morinda citrifolia' [SP]; 'Sydney Parkinson pinx^{t} 1769'; *v* [ink] 'Ulhietea' [JB]. 470×285/420; see Beaglehole, J.C. 1962 **I**: pl. 34b.
Bacstrom, S. Ms.: 32.

SI1/44 MORINDA UMBELLATA var. FORSTERI (Seeman) Fosberg, *Sargentia* **I**: 123 (1942).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 164–165 'Morinda umbellata'; Solander,

D. Slip Catalogue **V**: 653–657; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Morinda umbellata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×260/305.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 15/362. 460×300/300; engraving proof *r* [pencil] 'Morinda umbellata' [unknown]; col. engraving *BF*: pl. 613 [in preparation].

SI1/45 **OPHIORRHIZA SOLANDRI** Seeman, *Flora vit.*: 127 (1866).

SPECIMEN: Otaheite (holotype).

MANUSCRIPT: Solander, D. Pl. Otaheit.: 160–161 'Ophiorrhiza rugosa'; Solander, D. Slip Catalogue **IV**: 781–784; Banks, J. Cat. Pl.: 24.

FINISHED DRAWING: watercolours *r* [ink] 'Ophioriza rugosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769'. 370×265/235; see Carr, D. J. [Ed.] 1983 pl. 87 p. 95, col. pl.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 4/81. 460×295/235; engraving proof *r* [pencil] 'Ophiorrhiza rugosa' [unknown]; col. engraving *BF*: pl. 614 [in preparation].

SI1/46 **GARDENIA TAITENSIS** de Candolle, *Prodr.* **4**: 380 (1830).

SPECIMEN: 3 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 42, 49, 92 'Gardenia florida'; Solander, D. Slip Catalogue **VII**: 65–68; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Gardenia florida.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/405; see Beaglehole, J. C. 1962 **I**: pl. 30.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 16/378. 460×295/400; engraving proof *r* [pencil] 'Gardenia florida' [unknown]; col. engraving *BF*: pl. 615 [in preparation].

COMPOSITAE

SI1/47 **ADENOSTEMMA VISCOSUM** Forster & G. Forster, *Char. gen. pl.*: 90, t. 45 (1775).

SPECIMEN: 2 sheets, 1 – Otaheite, 2 – Otaheite, Huahine, Ulhietea, Otaha.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 149–150 'Lavenia glutinosa'; Solander, D. Pl. Ins. Ocean. Pac.: 18; Solander, D. Slip Catalogue **XVI**: 201–205; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Lavenia glutinosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 370×260/300.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 16/386. 460×295/300; engraving proof *r* [pencil] 'Lavenia glutinosa' [unknown]; col. engraving *BF*: pl. 616 [in preparation].

SI1/48 Dichrocephala integrifolia (Linnaeus f.) Kuntze, *Revis. gen. pl.*: 333 (1891).

Specimen: 2 sheets, 1 – Otaheite, Huahine, Ulhietea, Otaha.

Manuscript: Solander, D. Pl. Otaheit.: 154–155 'Cotula bicolor'; Solander, D. Slip Catalogue **XVIII**: 93–97; Banks, J. Cat. Pl.: 27.

Finished drawing: watercolours *r* [ink] 'Cotula bicolor' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/430.

Copper plate: [CW]; Bacstrom. S. Ms.: 118; Brown, R. Ms.: 7/174. 455×290/425; engraving proof *r* [pencil] 'Cotula bicolor' [unknown]; col. engraving *BF*: pl. 617 [in preparation].

ERICACEAE

SI/49 Vaccineum cereum (Linnaeus f.) G. Forster, *Fl. ins. austr.*: 28 (1786).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 47, 49 'Vaccinium alaternoides'; Solander, D. Slip Catalogue **IX**: 585–588; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Vaccinium alaternoides.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×265/290; see Carr, D. J. [Ed.] 1983 pl. 85 p. 93.

Copper plate: [GS]; Bacstrom, S. Ms.: 60; Brown, R. Ms.: 10/232. 455×295/285; engraving proof *r* [pencil] 'Vaccinium alaternoides' [unknown]; col. engraving *BF*: pl. 618 [in preparation].

OLEACEAE

SI1/50 Jasminum didymum G. Forster, *Fl. ins. austr.*: 3 (1786).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 151, 152–153 'Jasminum didymum'; Solander, D. Slip Catalogue **I**: 281–286; Banks, J. Cat. Pl: 24.

Finished drawing: watercolours *r* [ink] 'Jasminum didymum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/425; see Beaglehole, J. C. 1962 **I**: pl. 31.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/7. 455×295/420; engraving proof *r* [pencil] 'Jasminum vimineum' [unknown]; col. engraving *BF*: pl. 619 [in preparation].

APOCYNACEAE

SI1/51 Alyxia scandens (Forster & G. Forster) Roemer & Schultes, *Syst. veg.* **4**: 440 (1819).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 140–141, 171 'Galaxa oppositifolia', Solander, D. Slip Catalogue **VII**: 31–34; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Galaxa oppositifolia.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [ink] 'Otahite' [JB]. 470×280/410.

COPPER PLATE: [GS]; Bacstrom, S. M.: 36; Brown, R. Ms.: 5/123. 455×295/405; engraving proof *r* [pencil] 'Alyxia oppositifolia' [unknown]; col. engraving *BF*: pl. 620 [in preparation].

SI1/52 ALSTONIA COSTATA (G. Forster) R. Brown, *Mem. Wernerian nat. Hist. Soc.* **I**: 77 (1811).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 85–86 'Echites costata'; Solander, D. Pl. Ins. Ocean. Pac.: 29–30; Solander, D. Slip Catalogue **VIII**: 153–157; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Echites costata.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 465×280/395; see Carr, D. J. [Ed.] 1983 pl. 88 p. 96.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 5/125. 460×295/390; engraving proof *r* [pencil] 'Echites costata' [unknown]; col. engraving *BF*: pl. pl. 621 [in preparation].

SI1/53 CERBERA MANGHAS Linnaeus, *Sp. pl.* **I**: 208 (1753).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 35–37, 141–142 'Galaxa sparsa'; Solander, D. Slip Catalogue **VII**: 45–50; Banks, J. Cat. Pl.: 25; 1973 *CF*: pl. 4 *pro descr.*

FINISHED DRAWING: 1– watercolours *r* [ink] '[[Galaxa sparsa]]' [SP]; 'Cerbera Manghas' [unknown]; 'Sydney Parkinson pinx^t 1769.'. 470×285/400; 2– watercolours *r* [ink] '[[Galaxa sparsa.]]' [SP]; 'Cerbera manghas' [unknown]; 'Sydney Parkinson pinx^t 1769.'. 365×260/105, 130, 80.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 5/122. 460×295/400, 200, 80; engraving proof *r* [pencil] 'Cerbera Manghas' [unknown]; engraving 1973 *CF*: pl. 4; col. engraving *BF*: pl. 622 [in preparation].

SI1/54 TABERNAEMONTANA ORIENTALIS Linnaeus, *Sp. pl.* **I**: 208 (1753).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 179–181 'Tabernaemontana citrifolia'; Solander, D. Slip Catalogue **VII**: 173–176; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Tabernaemontana citrifolia' [SP]; 'Sydney Parkinson pinx^t 1769.'. 465×280/325.
Bacstrom, S. Ms.: 36.

POTALIACEAE

SI1/55 FAGRAEA BERTERIANA A. Gray ex Bentham, *J. Linn. Soc.* (Bot.) **1**: 98 (1856).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 52–54, 142–144 'Besleria laurifolia'; Solander, D. Slip Catalogue **XIII**: 335–340; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Besleria laurifolia' [SP]. 470×285/355; see Carr, D. J. [Ed.] 1983 pl. 90 p. 98, col. pl.
Bacstrom, S. Ms.: 94.

EHRETIACEAE

SI1/56 CORDIA SUBCORDATA Lamarck, *Tabl. encycl.* **1**: 421 (1792).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 31 'Cordia sebestena'; Solander, D. Slip Catalogue **VI**: 77–82; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Cordia sebestena.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] '20' [unknown]; 'Cordia Sebestena' [unknown]; [ink] 'Otahite' [JB]. 470×285/420; see Beaglehole, J. C. 1962 **1**: pl. 56.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/113. 460×295/415; engraving proof *r* [pencil] 'Cordia Sebestena' [unknown]; col. engraving *BF*: pl. 623 [in preparation].

BORAGINACEAE

SI1/57 TOURNEFORTIA ARGENTEA Linnaeus f., *Suppl. pl.*: 133 (1782).

SPECIMEN: 2 sheets, Ulhietea.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 5, 7 'Tournefortia sericea'; Solander, D. Slip Catalogue **IV**: 687–691; Banks, J. Cat. Pl.: 24.

FINISHED DRAWING: watercolours *r* [ink] 'Tournefortia sericea.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 470×280/440; see Carr, D. J. [Ed.] 1983 pl. 89 p. 97.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 10/228. 455×295/430; engraving proof *r* [pencil] 'Tournefortia sericea' [unknown]; col. engraving *BF*: pl. 624 [in preparation].

CONVOLVULACEAE

SI2/1 MERREMIA TURPETHUM (Linnaeus) Rendle in Thistleton-Dyer, *Fl. Trop. Afr.* **4** (2): 102 (1905).

SPECIMEN: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 63–64 'Convolvulus alatus'; Solander, D. Slip Catalogue **V**: 175–179; Banks, J. Cat. Pl.: 25.

Finished drawing: watercolours *r* [ink] 'Convolvulus alatus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×285/400.

Copper plate: [DM]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/93. 455×295/395; engraving proof *r* [pencil] 'Convolvulus alatus' [unknown]; col. engraving *BF*: pl. 625 [in preparation].

SI2/2 **Merremia peltata** (Linnaeus) Merrill, *Interpr. Herb. amboin.*: 441 (1917).

Specimen: Society Islands.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 2, 21 'Convolvulus peltatus'; Solander, D. Slip Catalogue **V**: 185–188; Banks, J. Cat. Pl.: 25.

Finished drawing: watercolours *r* [ink] 'Convolvulus peltatus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/435; see Beaglehole, J. C. 1962 **I**: pl. 37.

Copper plate: [JL]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/92. 460×295/430; engraving proof *r* [pencil] 'Convolvulus peltatus' [unknown]; col. engraving *BF*: pl. 626 [in preparation].

SI2/3 **Ipomoea batatus** (Linnaeus) Lamarck, *Tabl. encycl.* **I**: 465 (1791).

Specimen: Society Islands.

Manuscript: Solander, D. Pl. Otaheit.: 34–35 'Convolvulus chrysorhizus'; Solander, D. Slip Catalogue **V**: 171–174; Banks, J. Cat. Pl.: 25.

Finished drawing: watercolours *r* [ink] 'Convolvulus chrysorizus' [SP]; 'Sydney Parkinson pinx^{t} 1769'. 285×470/255; see Stearn, W. T. 1968 *Endeavour* **XXVII**: 6' fig. 4, col. pl.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/98. 295×455/255; engraving proof *r* [pencil] 'Convolvulus dulcis chrysorizus' [unknown]; col. engraving *BF*: pl. 627 [in preparation].

SI2/4 **Ipomoea macrantha** Roemer & Schultes, *Syst. veg.* **4**: 251 (1819).

Specimen: Huahine, Ulhietea.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 1, 28 'Convolvulus longiflorus'; Solander, D. Slip Catalogue **V**: 161–164; Banks, J. Cat. Pl.: 25.

Finished drawing: watercolours *r* [ink] 'Convolvulus longiflorus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×285/415.

Copper plate: [WT]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/100. 460×295/410; engraving proof *r* [pencil] 'Convolvulus longiflorus' [unknown]; col. engraving *BF*: pl. 628 [in preparation].

SI2/5 **IPOMOEA LITTORALIS** Blume, *Bijdr.* **3**: 713 (1825).

SPECIMEN: Society Islands.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 23 ‘Convolvulus laevigatus β’; Solander, D. Slip Catalogue **V**: 111–114; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] ‘Convolvulus laevigatus.’ [SP]; ‘Sydney Parkinson pinx^{t} 1769.’; *v* [pencil] ‘N° 14’ [unknown]; ‘Convolvulus laevigatus’ [unknown]; [ink] ‘Otahite’ [JB]. 465×275/410.

COPPER PLATE: [TS]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/87. 455×295/400; engraving proof *r* [pencil] ‘Convolvulus laevigatus’ [unknown]; col. engraving *BF*: pl. 629 [in preparation].

SI2/6 **IPOMOEA LITTORALIS** Blume, *Bijdr.* **3**: 713 (1825).

SPECIMEN: Society Islands.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 32 ‘Convolvulus laevigatus α’; Solander, D. Slip Catalogue **V**: 111–114; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] ‘Convolvulus laevigatus.’ [SP]; ‘Sydney Parkinson pinx^{t} 1769.’. 465×275/395.

COPPER PLATE: [M]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/86. 460×295/390; engraving proof *r* [pencil] ‘Convolvulus laevigatus α’ [unknown]; col. engraving *BF*: pl. 630 [in preparation].

SI2/7a **STICTOCARDIA TILIAEFOLIA** (Desrousseaux) Hallier f., *Bot. Jb.* **18**: 159 (1894).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 92–93 ‘Convolvulus grandiflorus β’; Solander, D. Slip Catalogue **V**: 135–139; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] ‘Convolvulus grandiflorus.’ [SP]; ‘Sydney Parkinson pinx^{t} 1769.’; *v* [pencil] ‘N° 15’ [unknown]; ‘Convolvulus grandiflorus’ [unknown]; [ink] ‘Otahite’ [JB]. 470×280/430.
Bacstrom, S. Ms.: 30.

SI2/7b **IPOMOEA ILLUSTRIS** (Clarke) Prain, *Beng. Pl.* **2**: 735 (1903).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 144 ‘Convolvulus grandiflorus α’; Solander, D. Slip Catalogue **V**: 135–139; Banks, J. Cat. Pl.: 25; 1973 *CF*: pl. 5 *pro descr.*

FINISHED DRAWING: watercolours *r* [ink] ‘Convolvulus grandiflorus’ [SP]; ‘Sydney Parkinson pinx^{t} 1769.’. 520×330/445; see Carr, D. J. [Ed.] 1983 pl. 91 p. 99, col. pl.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 30; Brown, R. Ms.: 4/91. 460×295/445; engraving proof *r* [pencil] ‘Convolvulus grandiflorus’ [unknown]; engraving 1973 *CF*: pl. 5; col. engraving *BF*: pl. 631 [in preparation].

SOLANACEAE

SI2/8 **SOLANUM REPANDUM** G. Forster, *Fl. ins. austr.*: 18 (1786).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 24, 40–41 'Solanum latifolium'; Solander, D. Slip Catalogue **V**: 775–778; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Solanum latifolium.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×285/390; see Carr, D. J. [Ed.] 1983 pl. 93 p. 101.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 5/111. 460×295/385; engraving proof *r* [pencil] 'Solanum latifolium' [unknown]; col. engraving *BF*: pl. 632 [in preparation].

SI2/9 **SOLANUM VIRIDE** G. Forster, *Pl. esc.*: 72 (1786).

SPECIMEN: Society Islands.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 24 'Solanum viride'; Solander, D. Slip Catalogue **V**: 761–763; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Solanum viride.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '28.' [unknown]; 'Solanum viride' [unknown]; [ink] 'Otahite' [JB]. 470×280/405; see Carr, D. J. [Ed.] 1983 pl. 94 p. 102, col. pl.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 32; Brown, R. Ms.: 5/110. 455×295/405; engraving proof *r* [pencil] 'Solanum viride' [unknown]; col. engraving *BF*: pl. 633 [in preparation].

GESNERIACEAE

SI2/10 **CYRTANDRA GLABRA** Banks ex Gaertner, *Fruct. Sem. pl.* **3**: 234, t. 224 (1807).

SPECIMEN: Otaheite (syntype).

MANUSCRIPT: Solander, D. Pl. Otaheit.: 82–84, 109–111 'Schwenkia fruticosa'; Solander, D. Slip Catalogue **I**: 463–469; Banks, J. Cat. Pl.: 24.

FINISHED DRAWING: watercolours *r* [ink] 'Schwenkia fruticosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; 'N^{o}. 5.' [unknown]; 'Schwenkia fruticosa' [unknown]. 470×280/365.

COPPER PLATE: [JR]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 2/30. 455×295/365; engraving proof *r* [pencil] 'Tabus recurvus' [unknown]; 'N^{o}. 5.' [unknown]; 'Schwenkia fruticosa' [unknown]; 'Cyrtandra glabrata Mss' [unknown]; col. engraving *BF*: pl. 634 [in preparation].

ACANTHACEAE

SI2/11 **Dicliptera velata** Solander ex Seeman, *Flora vit.*: 183 (1866).

Specimen: Huahine (holotype).

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 26–27 'Dianthera velata'; Solander, D. Slip Catalogue **I**: 555–559; Banks, J. Cat. Pl.: 24.

Finished drawing: watercolours *r* [ink] 'Dianthera velata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] 'N^{o}. 4.' [unknown]; 'Dianthera velata.' [unknown]; [ink] 'Huahine' [JB]. 365×265/290.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 9; Brown, R. Ms.: 1/24. 455×295/285; engraving proof *r* [pencil] 'Stipulae less' 'Crenaturae less' [unknown]; 'Dianthera velata' [unknown]; col. engraving *BF*: pl. 635 [in preparation].

SI2/12 **Dicliptera bracteata** Solander ex Seeman, *Flora vit.*: 184 (1866).

Specimen: Otaheite (holotype).

Manuscript: Solander, D. Pl. Otaheit.: 134 'Dianthera bracteata'; Solander, D. Slip Catalogue **I**: 549–554; Banks, J. Cat. Pl.: 24.

Finished drawing: watercolours *r* [ink] 'Dianthera bracteata.' [SP]; 'Sydney Parkinson pinx$^{t.}$ 1769.'; *v* [pencil] 'N^{o}. 3' 'Dianthera bracteata.' [unknown]. 370×255/295.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 9; Brown, R. Ms.: 1/25. 460×295/295; engraving proof *r* [pencil] 'The umbellae alter'd to more compound.' 'Stipulae alter broader' 'The Crenaturae of the Leaves Less.' [unknown]; 'Dianthera frondosa' [unknown]; col. engraving *BF*: pl. 636 [in preparation].

SCROPHULARIACEAE

SI2/13 **Limnophila fragrans** (G. Forster) Seeman, *Flora vit.*: 180 (1866).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 170–171, 173–174 'Ruellia fragrans'; Solander, D. Slip Catalogue **XIII**: 663–666; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Ruellia fragrans.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×265/305.

Copper plate: [DM]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 15/363. 460×295/315; engraving proof *r* [pencil] 'Ruellia fragrans' [unknown]; col. engraving *BF*: pl. 637 [in preparation].

VERBENACEAE

SI2/14 **Premna obtusifolia** R. Brown, *Prodr.*: 512 (1810).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 108–109, 114 'Lomatia cymosa'; Solander, D. Slip Catalogue **XIII**: 497–500; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] '[[Lomatia]] Premna cymosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 370×265/310.

Copper plate: [GS]; Bacstrom, S. Ms.: 96; Brown, R. Ms.: 17/409. 460×295/310; engraving proof *r* [pencil] 'Premna cymosa' [unknown]; col. engraving *BF*: pl. 638 [in preparation].

LABIATAE

SI2/15 **Leucas decemdentata** (Willdenow) Smith in Rees, *Cycl.* **20**: *Tristania* no.2 (1817).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 16–17 'Stachys decemdentata'; Solander, D. Slip Catalogue **XIII**: 81–84; Banks, J. Cat. Pl.: 26.

Finished drawing: watercolours *r* [ink] 'Stachys 10 dentata' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 370×265/315.

Copper plate: [GS]; Bacstrom, S. Ms.: 94; Brown, R. Ms.: 12/286. 460×295/310; engraving proof *r* [pencil] 'Stachys decemdentata' [unknown]; col. engraving *BF*: pl. 639 [in preparation].

NYCTAGINACEAE

SI2/16 **Boerhavia actuifolia** (Choisy) J. Moore, *Occ. Pap. P. Bishop Mus.* **10** (19): 6 (1934).

Specimen: Otaheite, Huahine, Ulhietea, Otaha.

Manuscript: Solander, D. Pl. Otaheit.: 6*–7* 'Boerhavia procumbens'; Solander, D. Slip Catalogue **I**: 183–186; Banks, J. Cat. Pl.: 24.

Finished drawing: watercolours *r* [ink] 'Boerhavia procumbens.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 280×465/280.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 4; Brown, R. Ms.: 1/3. 295×460/275; engraving proof *r* [pencil] 'Boerhavia procumbens' [unknown]; col. engraving *BF*: pl. 640 [in preparation].

SI2/17 **Pisonia grandis** R. Brown, *Prodr.*: 422 (1810).

Specimen: 2 sheets, Otaheite.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Slip Catalogue **IX**: 313–319 'Pisonia grandis'; [not in Banks, J. Cat. Pl.].

Finished drawing: watercolours *r* [ink] 'Pisonia grandis' [SP]; [pencil] 'Obs. the Lacineae corollae are made too broad & large' [SP]. 470×280/370; see Adams, B. 1986 pl. 64 col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 16/383. 460×295/365; engraving proof *r* [pencil] 'Pisonia grandis' [unknown]; col. engraving *BF*: pl. 641 [in preparation].

PIPERACEAE

SI2/18 **Piper methysticum** G. Forster, *Pl. esc.*: 76 (1786).

Specimen: 3 sheets, Society Islands.

Manuscript: Solander, D. Pl. Otaheit.: P [index entry only, no description] 'Piper inebrians'; Solander, D. Pl. Ins. Ocean. Pac.: 6–7 'Piper pharnaceum'; Solander, D. Slip Catalogue **II**: 123–129; Banks, J. Cat. Pl.: 24.

Finished drawing: watercolours *r* [ink] 'Piper inebrians.'; 'Sydney Parkinson pinx^{t} 1769.'. 465×275/380; see Beaglehole, J. C. 1962 **I**: pl. 36.

Copper plate: [M]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/36. 455×300/380; engraving proof *r* [pencil] 'Piper inebrians' [unknown]; col. engraving *BF*: pl. 642 [in preparation].

SI2/19 **Piper latifolium** Linnaeus f., *Suppl. pl.*: 91 *emend.* (1782).

Specimen: Society Islands (isotype).

Manuscript: Solander, D. Pl. Otaheit.: 78–79 'Piper latifolium'; Solander, D. Slip Catalogue **II**: 131–133; Banks, J. Cat. Pl.: 24.

Finished drawing: watercolours *r* [ink] 'Piper latifolium.' [unknown]; 'Sydney Parkinson pinx^{t} 1769.'. 465×280/345.

Copper plate: [M]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/37. 455×300/345; engraving proof *r* [pencil] 'Piper latifolium' [unknown]; col. engraving *BF*: pl. 643 [in preparation].

SI2/20 **Peperomia leptostachya** Hooker & Arnott, *Bot. Beechey Voy.*: 96 (1832).

Specimen: 3 sheets, Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 43, 138–139 'Piper polymorphum'; Solander, D. Slip Catalogue **II**: 159–162; Banks, J. Cat. Pl.: 24.

Finished drawing: watercolours *r* [ink] 'Piper polymorphum' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×265/330.

Copper plate: [CW]; Bacstrom, S. Ms.: 10; Brown, R. Ms.: 2/39. 455×295/340; engraving proof *r* [pencil] 'Piper polymorphum' [unknown]; col. engraving *BF*: pl. 644 [in preparation].

HERNANDIACEAE

SI2/21 **HERNANDIA SONORA** Linnaeus, *Sp. pl.*: 981 (1753).

SPECIMEN: 3 sheets, 1 – 2 Society Islands, 3 – Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 55–57, 57–58, 174–175 'Hernandia ovigera'; Solander, D. Slip Catalogue **XIX**: 11–18; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Hernandia ovigera.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [ink] 'Otahite'. 465×280/370; see Carr, D. J. [Ed.] 1983 pl. 95 p. 103, col. pl.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 17/407. 460×295/365; engraving proof *r* [pencil] 'Hernandia ovigera' [unknown]; col. engraving *BF*: pl. 645 [in preparation].

THYMELAEACEAE

SI2/22 **WIKSTROEMIA FOETIDA** (Linnaeus f.) A. Gray, *J. Bot., Lond.* **3**: 302 (1865).

SPECIMEN: See SI2/23.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 43 'Daphne capitata'; Solander, D. Slip Catalogue **IX**: 809–812; Banks, J. Cat. Pl: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Daphne capitata.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 470×280/395.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 62; Brown, R. Ms.: 7/159. 455×295/390; engraving proof *r* [pencil] 'Daphne capitata' [unknown]; col. engraving *BF*: pl. 646 [in preparation].

SI2/23 **WIKSTROEMIA FOETIDA** (Linnaeus f.) A. Gray, *J. Bot., Lond.* **3**:302 (1865).

SPECIMEN: Ulheitea, Huahine.

MANUSCRIPT: Solander, D. Index. Pl. Otaheit.: D [index entry only, no description] 'Daphne coriacea'; Solander, D. Slip Catalogue **IX**; 819–822; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Daphne coriacea.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] '38.' [unknown]; 'Daphne coriacea' [unknown]. 460×285/390; see Carr, D. J. [Ed.] 1983 pl. 92 p. 100.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 62; Brown, R. Ms.: 10/231. 455×295/385; engraving proof *r* [pencil] 'Daphne coriacea' [unknown]; col. engraving *BF*: pl. 647 [in preparation].

LORANTHACEAE

SI2/24 **AMYLOTHECA FORSTERIANA** (Schultes f.) Danser, *Bull. Jard. bot. Buitenz.*, sér. 3, **10**: 301 (1929).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 65–66, 68 'Loranthus stelis'; Solander, D. Slip Catalogue **IX**: 167–170; Banks, J. Cat. Pl.: 25.

FINISHED DRAWING: watercolours *r* [ink] 'Loranthus stelis.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 465×280/405.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 7/158. 455×295/400; engraving proof *r* [pencil] 'Loranthus stelis' [unknown]; 'G. Smith engr' [unknown]; col. engraving *BF*: pl. 648 [in preparation].

BALANOPHORACEAE

SI2/25 BALANOPHORA ABBREVIATA Blume, *Enum. pl. Javae* **I**: 87 (1827).

SPECIMEN: Society Islands.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Slip Catalogue **XVIII**: 533–536 '[[Acroblastum pallens]]'; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Acroblastum pallens.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 285×230/160; see Carr, D. J. [Ed.] 1983 pl. 96 p. 104. Bacstrom, S. Ms.: 124.

EUPHORBIACEAE

SI2/26 CHAMAESYCE ATOTO (G. Forster) Croizat in Degener, *Fl. Hawaiiensis*: fam. 190 (1937).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 12 'Euphorbia develata'; Solander, D. Slip Catalogue **XI**: 413–416; Banks, J. Cat. Pl.: 26.

FINISHED DRAWING: watercolours *r* [ink] 'Euphorbia develata.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 470×285/415; see Carr, D. J. [Ed.] 1983 pl. 97 p. 104.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 82; Brown, R. Ms.: 7/166. 455×295/410; engraving proof *r* [pencil] 'Euphorbia develata' [unknown]; col. engraving *BF*: pl. 649 [in preparation].

SI2/27 PHYLLANTHUS VIRGATUS G. Forster, *Fl. ins. austr.*: 65 (1786).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 58 'Phyllanthus anceps'; Solander, D. Slip Catalogue **XIX**: 619–622; Banks, J. Cat. Pl: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Phyllanthus anceps.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 365×260/295.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 16/395. 460×295/295; engraving proof *r* [pencil] 'Phyllanthus anceps' [unknown]; col. engraving *BF*: pl. 650 [in preparation].

SI2/28 Glochidion ramiflorum Forster & G. Forster, *Char. gen. pl.*: 114, t. 57 (1875) *sensu lato.*

Specimen: 2 sheets, Otaheite.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac. : 1 'Bradlea laevigata'; [not in Solander, D. Slip Catalogue]; Banks, J. Cat. Pl.: 28.

Finished drawing: watercolours *r* [ink] 'Bradlaea laevigata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×265/320.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 15/366. 460×295/320; engraving proof *r* [pencil] 'Bradlaea laevigata' [unknown]; col. engraving *BF*: pl. 651 [in preparation].

SI2/29 Omalanthus nutans (G. Forster) Guillemin, *Annls Sci. nat.*, sér 2, **7**: 186 (1837).

Specimen: 2 sheets, Otaheite.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Slip Catalogue **XIX**: 559–563 'Croton populneum'; Banks. J. Cat. Pl.: 28.

Finished drawing: watercolours *r* [ink] 'Croton populneum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '95.' [unknown]; 'Croton populneum' [unknown]. 460×275/350.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 16/396 460×295/350; engraving proof *r* [pencil] 'Croton populneum' [unknown]; col. engraving *BF*: pl. 652 [in preparation].

SI2/30 Aleurites moluccana (Linnaeus) Willdenow, *Sp. pl.* **4**: 590 (1805).

Specimen: Society Islands.

Manuscript: Solander, D. Pl. Otaheit.: 6–8, 12, 178 'Telopea perspicua'; Solander, D. Slip Catalogue **XIX**: 647–654; Banks, J. Cat. Pl.: 28.

Finished drawing: watercolours *r* [ink] 'Telopea perspicua.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×285/385.

Copper plate: [GS]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 15/356. 460×295/380; engraving proof *r* [pencil] 'Telopea perspicua' [unknown]; 'Sibelius engr' [unknown]; col. engraving *BF*: pl. 653 [in preparation].

SI2/31 Aleurites moluccana (Linnaeus) Willdenow, *Sp. pl.* **4**: 590 (1805).

Specimen: see SI2/30.

Manuscript: Solander, D. Pl. Otaheit.: 6, 12, 178 'Telopea perspicua'; Solander, D. Slip Catalogue **XIX**: 647–654; Banks, J. Cat. Pl.: 28.

Outline drawing: pencil outlines [SP]; *v* [pencil] 'N°–91 Telopea perspicua' [unknown]. 455×285/400.

Copper plate: [GS]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 15/357. 460×295/395; engraving proof *r* [pencil] 'Telopaea perspicua' [unknown]; col. engraving *BF*: pl. 654 [in preparation].

MORACEAE

SI2/32 **Ficus tinctoria** G. Forster, *Fl. ins. austr.*: 76 (1786).

Specimen: 2 sheets, Society Islands.

Manuscript: Solander, D. Index Pl. Otaheit.: E [index entry only, no description] 'Ficus tinctoria'; Solander, D. Slip Catalogue **XXI**: 477–480; Banks, J. Cat. Pl.: 29.

Finished drawing: watercolours *r* [ink] 'Ficus tinctoria.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* '103.' [unknown]; 'Ficus tinctoria' [unknown]; [ink] 'Otahite' [JB]. 470×285/390; see Beaglehole, J. C. 1962 **I**: pl. 33a.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 140; Brown, R. Ms.: 16/390. 460×295/385; engraving proof *r* [pencil] 'Ficus tinctoria' [unknown]; col. engraving *BF*: pl. 655 [in preparation].

URTICACEAE

SI2/33a **Pipturus argenteus** (G. Forster) Weddell in de Candolle, *Prodr.* **16** (1): 235^{19} (1869).

Specimen: Otaheite.

Manuscript: Solander, D. Index Pl. Otaheit.: U [index entry only, no description] 'Urtica argentea'; Solander, D. Slip Catalogue **XIX**: 119–123; Banks, J. Cat. Pl.: 28.

Outline drawing: pencil outlines [SP]; *v* [pencil] '89' [unknown]; 'Urtica argentea' [unknown]; 'not to be finished' [unknown]; [ink] 'Huahine' [JB]. 470×285/340.
Bacstrom, S. Ms.: 126.

SI2/33b **Pipturus argenteus** (G. Forster) Weddell in de Candolle, *Prodr.* **16** (1): 235^{19} (1869).

Specimen: see SI2/33a.

Manuscript: Solander, D. Index Pl. Otaheit.: U [index entry only, no description] 'Urtica argentea'; Solander, D. Slip Catalogue **XIX**: 119–123; Banks, J. Cat. Pl.: 28.

Finished drawing: watercolours *r* [ink] 'Urtica argentea' [SP]; 'Sydney Parkinson pinx^t 1769.'. 465×280/345.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 18/438. 465×295/345; engraving proof *r* [pencil] 'Urtica argentea' [unknown]; col. engraving *BF*: pl. 656 [in preparation].

SI2/34 **Boehmeria virgata** (G. Forster) Guillemin, *Annls Sci. nat.*, sér 2, **7**: 182 (1837).

Specimen: 2 sheets [♀], Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 137, 175–176 'Urtica virgata'; Solander,

D. Slip Catalogue **XIX**: 107–111; Banks, J. Cat. Pl.: 28.

OUTLINE DRAWING: [♂] pencil outlines [SP]; *v* [pencil] '66' [unknown]; 'Urtica virgata' [unknown]; [ink] 'Otahite' [JB]. 470×285/390.

FINISHED DRAWING: [♀] watercolours *r* [ink] 'Urtica virgata.' [SP]; Sydney Parkinson pinx^{t} 1769.'. 470×280/390.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 17/408. 460×295/385; engraving proof *r* [pencil] 'Urtica virgata' [unknown]; col. engraving *BF*: pl. 657 [in preparation].

SI2/35 LAPORTEA RUDERALIS (G. Forster) Chew, *Gdns' Bull.*, Singapore **21**: 201 (1965).

SPECIMEN: 2 sheets, 1 – Otaheite, 2 – Huahine, Ulhietea.

MANUSCRIPT: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 4 'Urtica lucida'; Solander, D. Slip Catalogue **XIX**: 115–118; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Urtica lucida.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×260/305; see Carr, D. J. [Ed.] 1983 pl. 98 p. 105.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 12/292. 460×295/305; engraving proof *r* [pencil] 'Urtica lucida' [unknown]; 'M^{c}Kenzie Engr' [unknown]; col. engraving *BF*: pl. 658 [in preparation].

SI2/36 LAPORTEA INTERRUPTA (Linnaeus) Chew, *Gdns' Bull.*, Singapore **21**: 201 (1965).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 42 'Urtica interrupta'; Solander, D. Slip Catalogue **XIX**: 63–66; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Urtica interrupta.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×260/280.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 12/293. 460×295/275; engraving proof *r* [pencil] 'Urtica interrupta' [unknown]; col. engraving *BF*: pl. 659 [in preparation].

MORACEAE

SI2/37 ARTOCARPUS ALTILIS (Parkinson) Fosberg, *J. Wash. Acad. Sci.* **31**: 95 (1941).

SPECIMEN: 2 sheets, 1 – Otaheite, 2 – Otaheite, Huahine, Ulhietea (? syntypes).

MANUSCRIPT: Solander, D. Pl. Otaheit.: 37–38, 59–60, 67–68 'Sitodium altile'; Solander, D. Slip Catalogue **XVII**: 569–580; Banks, J. Cat. Pl.: 28.

OUTLINE DRAWING: 1 – pencil outlines [SP]; *r* [pencil] 'The leaves dark grass green w^{t} pale yellow green veins the underside pale green w^{t} prominent veins, the male flower & spatha pale yellow green, the fruit a yellow green.' [SP]. 380×280/320; 2 – pencil outlines [SP]; *r* [pencil] 'Ooroo' [unknown]. 475×285/400;

3–pencil outlines [SP]; *r* [pencil] 'Ooroo' [unknown]; *v* 'N°. 3' 'Sitodium altile' [unknown]; [ink] 'Otaheite' [JB]. 475×285/440.

FINISHED DRAWING: 1 – watercolours *r* [ink] 'Sitodium altile.' [SP]; 'Sydney Parkinson pinx^{t}: 1769.'. 460×290/355; see Beaglehole, J. C. 1962 **I**: pl. 32; Stearn, W. T. 1968 *Endeavour* **XXVII**: 7 fig. 7; Allen, O. E. 1980: pl. 135 col. pl.; 2 – pen and ink wash *r* [ink] 'John Frederick Miller del.'. 435×330/355.
Bacstrom, S. Ms.: 126.

NOTES: following the whole plant drawings are two separate part drawings: 1 – pen and ink drawing of a leaf [SP]; *v* [pencil] 'N°. 93 [?]' 'Sitodium altile' [unknown]. 460×290/455; 2 – pen and ink drawing of cross section of the fruit [SP]. 365×265/270.

ULMACEAE

SI2/38 **TREMA AMBOINENSIS** var. **ARGENTEA** (Planchon) Lauterbach, *Bot. Jb.* **50**: 320, f. 2E (1913).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 119–118 ** 'Celtis orientalis'; Solander, D. Pl. Ins. Ocean. Pac.: 2; Solander, D. Slip Catalogue **XXI**: 191–194; Banks, J. Cat. Pl.: 29.

FINISHED DRAWING: watercolours *r* [ink] 'Celtis orientalis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×260/325.
Bacstrom, S. Ms.: 138.

URTICACEAE

SI2/38a **PROCRIS PEDUNCULATA** (Forster & G. Forster) Weddell in de Candolle, *Prodr.* **16** (1): 191 (1869).

SPECIMEN: see SI2/39.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 106–107, 113, 140 'Dorstenia lucida'; Solander, D. Slip Catalogue **XIX**: 79–84; Banks, J. Cat. Pl.: 28.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'the flowers & peduncles are white' [SP]; 'N° 60 Nodiflora fruticosa' [unknown]; [ink] 'Otahite' [JB]. 370×270/295.
Bacstrom, S. Ms.: 126.

NOTES: this is the outline drawing for number SI2/39 and has been inadvertently numbered SI2/38a.

SI2/39 **PROCRIS PEDUNCULATA** (Forster & G. Forster) Weddell in de Candolle, *Prodr.* **16** (1): 191 (1869).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 106–107, 113, 140 'Dorstenia lucida'; Solander, D. Slip Catalogue **XIX**: 79–84; Banks, J. Cat. Pl.: 28.

Finished drawing: watercolours *r* [ink] 'Dorstenia lucida.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 470×280/400; see Carr, D. J. [Ed.] 1983 pl. 99 p. 106, col. pl.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 14/338. 460×295/400; engraving proof *r* [pencil] 'Dorstenia lucida' [unknown]; col. engraving *BF*: pl. 660 [in preparation].

SI2/40 **Lecanthus solandri** Seemann, *Fl. vit.*: 236 (1867).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 162–164 'Dorstenia oppositifolia'; Solander, D. Slip Catalogue **XIX**: 89–93; Banks, J. Cat. Pl.: 28.

Finished drawing: watercolours *r* [ink] 'Dorstenia oppositifolia.' [SP]; Sydney Parkinson pinx^t 1769.'. 365×260/220.

Copper plate: [DM]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 17/419. 460×295/215; engraving proof *r* [pencil] 'Dorstenia oppositifolia' [unknown]; col. engraving *BF*: pl. 661 [in preparation].

CHLORANTHACEAE

SI2/41 **Ascarina polystachya** Forster & G. Forster, *Char. gen. pl.*: 118, t. 59 (1775).

Specimen: 2 sheets, Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 87 'Psilotum serratum'; Solander, D. Slip Catalogue **XX**: 197–198; Banks, J. Cat. Pl.: 29.

Finished drawing: watercolours *r* [ink] 'Psilotum serratum' [SP]; 'Sydney Parkinson pinx^t 1769.'. 470×285/400.

Copper plate: [CW]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 12/294. 460×295/390; engraving proof *r* [pencil] 'Psilotum serratum' [unknown]; col. engraving *BF*: pl. 662 [in preparation].

CASUARINACEAE

SI2/42 **Casuarina equisetifolia** Linnaeus, *Amoen. acad.* **4**: 143 (1759).

Specimen: 3 sheets, 1–2 – Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 4, 5–6 'Casuarina equisetifolia'; Solander, D. Slip Catalogue **XVIII**: 609–614; Banks, J. Cat. Pl.: 28.

Outline drawing: pencil outlines with colour references [SP]; *r* [pencil] 'Etoah' [unknown]; *v* 'N^o. 26 [[Equisetoides]] Casuarina' [unknown]; [ink] 'Otaheite' [JB]. 470×295/390; see Carr, D. J. [Ed.] 1983 pl. 40 p. 42.

Finished drawing: watercolours *r* [ink] 'Casuarina equisetifolia.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 525×345/475; see Carr, D. J. [Ed.] 1983 pl. 40 p. 43.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 16/376. 455×295/440; engraving proof *r* [pencil] 'Casuarina equisetifolia' [unknown]; 'G. Smith engr.' [unknown]; col. engraving *BF*: pl. 663 [in preparation].

ORCHIDACEAE

SI2/43 **MICROSTYLIS RESUPINATA** (G. Forster) Drake, *Ill. fl. ins. pacif.*: 305 (1892).

SPECIMEN: 2 sheets, Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 132–133 'Malaxis purpurea'; Solander, D. Slip Catalogue **XVIII**: 341–346; Banks, J. Cat. Pl.: 27.

FINISHED DRAWING: watercolours *r* [ink] 'Epipactis purpurea.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] 'No. 72' [unknown]; [ink.] 'Otaheite' [unknown]. 470×280/415.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 16/382. 460×295/410; engraving proof *r* [pencil] 'Malaxis purpurea' [unknown]; col. engraving *BF*: pl. 664 [in preparation].

SI2/44 **LIPARIS REVOLUTA** Hooker & Arnott, *Bot. Beechey Voy.*: 70 (1832).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 102–104 'Epidendrum laevigatum'; Solander, D. Slip Catalogue **XVIII**: 483–487; Banks, J. Cat. Pl.: 28.

FINISHED DRAWING: watercolours *r* [ink] 'Epidendrum laevigatum.' [SP]; 'Sydney Parkinson pinx^t 1769.'; *v* [pencil] 'N^o. 74' [unknown]. 360×255/210.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 14/347. 455×295/210; engraving proof *r* [pencil] 'Epidendrum laevigatum' [unknown]; col. engraving *BF*: pl. 665 [in preparation].

SI2/45 **DENDROBIUM INVOLUTUM** Lindley, *J. Proc. Linn. Soc.* (Bot.) **3**: 15 (1858).

SPECIMEN: Otaheite.

MANUSCRIPT: Solander, D. Pl. Otaheit.: 101–102 'Epidendrum myrtifolium'; Solander, D. Slip Catalogue **XVIII**: 475–479; Banks. J. Cat. Pl.: 27; 1973 *CF*: pl. 6 *pro descr.*

FINISHED DRAWING: watercolours *r* [ink] 'Epidendrum myrtifolium.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 470×275/400.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 14/349. 460×295/400; engraving proof *r* [pencil] 'Epidendrum myrtifolium' [unknown]; engraving 1973 *CF*: pl. 6; col. engraving *BF*: pl. 666 [in preparation].

SI2/46 **DENDROBIUM CRISPATUM** (G. Forster) Swartz, *Nova Acta R. Soc. Scient. upsal.* **6**: 84 (1799).

SPECIMEN: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 51, 112–113 ‘Epidendrum teretifolium’; Solander, D. Slip Catalogue **XVIII**: 489–494; Banks, J. Cat. Pl.: 27.

Finished drawing: watercolours *r* [ink] ‘Epidendrum teretifolium.’ [SP]; ‘Sydney Parkinson pinx^{t} 1769.’. 285×470/205.

Copper plate: [DM]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 14/346. 455×295/200; engraving proof *r* [pencil] ‘Epidendrum teretifolium’ [unknown]; col. engraving *BF*: pl. 667 [in preparation].

SI2/47 **Taeniophyllum fasciola** (G. Forster) Reichenbach f. in Seemann, *Flora vit.*: 296 (1866).

Specimen: Society Islands.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 24–25 ‘Epidendrum adpressum’; Solander, D. Slip Catalogue **XVIII**: 419–424; Banks, J. Cat. Pl.: 28.

Finished drawing: watercolours *r* [ink] ‘Epidendrum adpressum.’ [SP]; ‘Sydney Parkinson pinx^{t} 1769’. 365×260/260; see Carr, D. J. [Ed.] 1983 pl. 100 p. 107, col. pl.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 14/348. 460×295/230; engraving proof; col. engraving *BF*: pl. 668 [in preparation].

TACCACEAE

SI2/48 **Tacca leontopetaloides** (Linnaeus) Kuntze, *Revis. gen. pl.* **2**: 704 (1891).

Specimen: 2 sheets, Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 81 ‘Chaitaea tacca’; Solander, D. Pl. Ins. Ocean. Pac.: 12–14; Solander, D. Slip Catalogue **IX**: 51–58; Banks, J. Cat. Pl.: 25.

Finished drawing: watercolours *r* [ink] ‘Chaitaea tacca.’ [SP]; ‘Sydney Parkinson pinx^{t} 1769.’; *v* [pencil] ‘34. Chaitaea tacca’ [unknown]; [ink] ‘Ulheitea’ [JB]. 470×285/455; see Beaglehole, J. C. 1962 **I**: pl. 35; 1 sheet of anatomical drawings in pen and ink wash is pasted onto the Parkinson drawing. 75×110/40.

Copper plate: [WT]; Bacstrom, S. Ms.: 48; Brown, R. Ms. 13/315. 460×300/450; engraving proof *r* [pencil] ‘Chaitaea Tacca’ [unknown]; col. engraving *BF*: pl. 669 [in preparation].

AGAVACEAE

SI2/49 **Cordyline fruticosa** (Linnaeus) Chevalier, *Cat. jard. bot. Saigon*: 66 (1919).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 27–28, 60, 62 ‘Dracaena terminalis’; Solander, D. Slip Catalogue **VIII**: 691–698; Banks, J. Cat. Pl.: 25.

Finished drawing: watercolours *r* [ink] ‘Dracaena terminalis.’ [SP]; ‘Sydney

Parkinson pinx^{t} 1769.'; *v* [pencil] '33 Dracaena terminalis' [unknown]; [ink] 'Otahite [?]' [JB]. 470×280/340.

Copper plate: [GS]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 16/398. 460×300/335; engraving proof *r* [pencil] 'Dracaena terminalis' [unknown]; col. engraving *BF*: pl. 670 [in preparation].

SI2/49a Cordyline fruticosa (Linnaeus) Chevalier, *Cat. jard. bot. Saigon*: 66 (1919).

Specimen: see SI2/49.

Manuscript: Solander, D. Pl. Otaheit.: 27–28, 60, 62 'Dracaena terminalis'; Solander, D. Slip Catalogue **VIII**: 691–698; Banks, J. Cat. Pl.: 25.

Finished drawing: watercolours *r* [ink] 'Dracaena terminalis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] '33 Dracaena terminalis' [unknown]; [ink] 'Otahite' [JB]. 470×280/445.

Copper plate: [GS]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 16/399 [?]. 460×300/440; engraving proof *r* [ink] 'Dracaena terminalis A:' 'G: Sibelius' [unknown]; col. engraving *BF*: pl. 671 [in preparation]; see Adams, B. 1986 col. pl.

PANDANACEAE

SI2/50 Pandanus tectorius Parkinson, *J. voy. South Seas*: 46 (1773).

Specimen: Otaheite (holotype).

Manuscript: Solander, D. Pl. Otaheit.: 50, 64–65 'Pandanus tectorius'; Solander, D. Slip Catalogue **XX**: 5–12; Banks, J. Cat. Pl.: 29.

Finished drawing: watercolours *r* [ink] 'Pandanus tectorius.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 465×280/435.
Bacstrom, S. Ms.: 140.

ARACEAE

SI2/51 Alocasia macrorrhiza (Linnaeus) G. Don in Sweet, *Hort. brit. ed. 3*: 631 (1839).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 11 'Arum costatum'; Solander, D. Slip Catalogue **XIX**: 417–420; Banks, J. Cat. Pl.: 28.

Finished drawing: pen and ink wash *r* [ink] 'Arum costatum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×265/320.
Bacstrom S., Ms.: 124.

GRAMINEAE

SI2/52 **Miscanthus floridulus** (Labillardière) Warburg ex Schumann & Lauterbach, *Fl. Schutzgeb. Südsee*: 166 (1900).

Specimen: Otaheite.

Manuscript: Solander, D. Pl. Otaheit.: 13 'Saccharum fatuum'; Solander, D. Slip Catalogue **II**: 801–803; Banks, J. Cat. Pl.: 24.

Finished drawing: watercolours *r* [ink] 'Saccharum fatuum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 470×280/445; see Carr, D. J. [Ed.] 1983 pl. 101 p. 107.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 14; Brown, R. Ms.: 2/42. 455×295/440; engraving proof *r* [pencil] 'Saccharum fatuum' [unknown]; col. engraving *BF*: pl. 672 [in preparation].

MARSILEACEAE

SI2/53 **Marsilea polycarpa** Hooker & Greville, *Icon. fil.* **2**: 160, t. 160 (1829 or 1830).

Specimen: Otaheite.

Manuscript: [not in Solander, D. Pl. Otaheit.]; Solander, D. Pl. Ins. Ocean. Pac.: 8 'Marsilea quadrifoliata'; Solander, D. Slip Catalogue **XXII**: 367–368; Banks, J. Cat. Pl.: 30; 1973 *CF*: pl. 7 *pro descr.*

Finished drawing: watercolours *r* [ink] 'Marsiglia quadrifoliata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×260/265.

Copper plate: [DM]; Bacstrom, S. Ms.: 146; Brown, R. Ms.: 17/402. 460×300/260; [no engraving proof]; engraving 1973 *CF*: pl. 7; col. engraving *BF*: pl. 673 [in preparation].

TIERRA DEL FUEGO

RANUNCULACEAE

TF1 **Ranunculus biternatus** Smith in Rees, *Cycl.* **29**: n. 48 (1814).

Specimen: *.

Manuscript: Solander, D. Pl. Terra del Fuego: 6 'Ranunculus flaccidus'; Solander, D. Slip Catalogue **XII**: 675–677.

Finished drawing: watercolours *r* [ink] 'Ranunculus flaccidus.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 290×235/130.

Copper plate: [JG]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 12/285. 460×295/130; engraving proof *r* [pencil] 'Ranunculus flaccidus' [unknown]; col. engraving *BF*: pl. 674 [in preparation].

TF2 **Caltha sagittata** Cavanilles, *Icon.* **5**: 8, t. 414 (1799).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 22 'Caltha multicapsularis'; Solander, D. Slip Catalogue **XII**: 701–704.

Finished drawing: watercolours *r* [ink] 'Caltha multicapsilaris.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 455×275/405; see Moore, D. M. 1983. pl. 5d, col. pl. Bacstrom, S. Ms.: 92.

TF3 **Caltha appendiculata** Persoon, *Syn. pl.* **2**: 107 (1806).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XII**: 705–708 'Caltha paradoxa'.

Finished drawing: watercolours *r* [ink] 'Caltha paradoxa.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 280×225/75.

Copper plate: [DM]; Bacstrom, S. Ms.: 92; Brown, R. Ms.: 14/332. 460×295/75; engraving proof *r* [pencil] 'Caltha paradoxa' [unknown]; col. engraving *BF*: pl. 675 [in preparation].

WINTERACEAE

TF4 **Drimys winteri** Forster & G. Forster, *Char. gen. pl.*: 84, t. 42 (1775).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 18–19 'Winterana aromatica'; Solander, D. Slip Catalogue **XII**: 521–524.

Finished drawing: watercolours *r* [ink] 'Winterana aromatica.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 445×270/330; see Beaglehole, J. C. 1962 **I**: pl. 27b; Cook,

J. 1977 p. 76 pl. IV, col. pl.; Carr, D. J. [Ed.] 1983 pl. 61 p. 66, col. pl.; Moore, D. M. 1983 pl. 5a, col. pl.
Bacstrom, S. Ms.: 82.

BERBERIDACEAE

TF5 **BERBERIS ILICIFOLIA** Linnaeus f., *Suppl. pl.*: 210 (1781).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 1 'Berberis sempervirens'; Solander, D. Slip Catalogue **IX**: 139–142.

FINISHED DRAWING: watercolours *r* [ink] 'Berberis sempervirens.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 450×280/370; see Beaglehole, J. C. 1962 **I**: pl. III; Stearn, W. T. 1968 *Endeavour* **XXVII**: 5, fig. 2, col. pl.; Cook, J. 1977 p. 78 pl. VI, col. pl.; Carr, D. J. [Ed.] 1983 pl. 62 p. 67, col. pl.; Moore, D. M. 1983 pl. 5c, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 10/226. 460×295/365; engraving proof *r* [pencil] 'Berberis sempervirens' [unknown]; col. engraving *BF*: pl. 676 [in preparation].

TF6 **BERBERIS BUXIFOLIA** Lamarck, *Tabl. encycl.* **I** (2): 391 (1792).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IX**: 143–146.

FINISHED DRAWING: watercolours *r* [ink] 'Berberis parvifolia.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 450×275/365; see Moore, D. M. 1983 p. 121 fig. 83.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 10/227. 455×295/360; engraving proof *r* [pencil] 'Berberis parvifolia' [unknown]; col. engraving *BF*: pl. 677 [in preparation].

CRUCIFERAE

TF7 **CARDAMINE GERANIIFOLIA** (Poiret) de Candolle, *Syst. nat.* **2**: 268 (1821).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XIV**: 83–85 'Dentaria polyphylla'.

FINISHED DRAWING: watercolours *r* [ink] 'Dentaria polyphylla.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 455×275/365; see Moore, D. M. 1983 p. 121 fig. 85.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 12/287. 460×295/365; engraving proof *r* [pencil] 'Dentaria polyphilla' [unknown]; col. engraving *BF*: pl. 678 [in preparation].

TF8 **Cardamine glacialis** (G. Forster) de Candolle, *Syst. nat.* **2**: 264 (1821).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XIV**: 93–96 'Cardamine antiscorbutica'.

Finished drawing: watercolours *r* [ink] 'Cardamine antiscorbutica.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×250/305.

Copper plate: [JG]; Bacstrom, S. Ms.: 100; Brown, R. Ms.: 14/334. 460×295/305; engraving proof *r* [pencil] 'Cardamine antiscorbutica' [unknown]; col. engraving *BF*: pl. 679 [in preparation].

CARYOPHYLLACEAE

TF9 **Colobanthus subulatus** (d'Urville) Hooker f., *Fl. antarct.* (2): 247 (1845).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IV**: 530 'Sagina muscosa γ laricifolia'.

Finished drawing: watercolours *r* [ink] 'Sagina muscosa.' [SP]; [pencil] 'γ' [unknown]; [ink] 'Sydney Parkinson pinx^{t} 1769.'. 280×225/45.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 13/301. 460×295/40; engraving proof [together with TF10 and TF11] *r* [pencil] 'Sagina muscosa, γ.' [unknown]; col. engraving *BF*: pl. 680 [together with TF10 and TF11] [in preparation].

TF10 **Colobanthus subulatus** (d'Urville) Hooker f., *Fl. antarct.* (2): 247 (1845).

Specimen: see TF9.

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IV**: 530 'Sagina muscosa β squarrosa'.

Finished drawing: watercolours *r* [ink] 'Sagina muscosa.' [SP]; [pencil] 'β' [unknown]; [ink] 'Sydney Parkinson pinx^{t} 1769.'. 285×230/45.

Copper plate: [G. Smith]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 13/301. 460×295/45; engraving proof [together with TF9 and TF11] *r* [pencil] 'Sagina muscosa, β' [unknown]; col. engraving *BF*: pl. 680 [together with TF9 and TF11] [in preparation].

TF11 **Colobanthus subulatus** (d'Urville) Hooker f., *Fl. antarct.* (2): 247 (1845).

Specimen: see TF9.

Manuscript: Solander, D. Pl. Terra del Fuego: 26 'Sagina muscosa'; Solander,

D. Slip Catalogue **IV**: 527–530.

FINISHED DRAWING: watercolours *r* [ink] 'Sagina muscosa.' [SP]; [pencil] '*α*' [unknown]; [ink] 'Sydney Parkinson pinx^{t} 1769.'. 285×225/50.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 13/301. 460×295/50; engraving proof [together with TF9 and TF10] *r* [pencil] 'Sagina muscosa *α*' [unknown]; col. engraving *BF*: pl. 680 [together with TF9 and TF10] [in preparation].

NOTES: TF12 was inadvertently missed out in the original numbering sequence.

TF13 CERASTIUM ARVENSE Linnaeus, *Sp. pl.* **I**: 438 (1753).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 6 'Cerastium flaccidum'; Solander, D. Slip Catalogue **XI**: 237–239.

OUTLINE DRAWING: pencil outlines with colour references [SP]; *v* [pencil] 'L9' [unknown]; 'Cerastium flaccidum' [SP]; [ink] 'Terra del Fuego' [JB]. 295×240/220.

FINISHED DRAWING: watercolours *r* [ink] 'Cerastium flaccidum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 355×250/290.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 78; Brown, R. Ms.: 17/425. 460×295/285; engraving proof *r* [pencil] 'Cerastium flaccidum' [unknown]; col. engraving *BF*: pl. 681 [in preparation].

CELASTRACEAE

TF14 MAYTENUS MAGELLANICA (Lamarck) Hooker f., *Fl. antarct.* (2): 254 (1845).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IX**: 197–200 'Euthalis lucida'.

FINISHED DRAWING: watercolours *r* [ink] 'Euthalis lucida' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 355×245/280.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 52; Brown, R. Ms.: 10/233. 460×295/280; engraving proof *r* [pencil] 'Euthalis lucida' [unknown]; col. engraving *BF*: pl. 682 [in preparation].

ROSACEAE

TF15 RUBUS GEOIDES Smith, *Pl. icon. ined.*, Fasc. **I**: 19, t. 19 (1789).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 7 'Rubus antarcticus'; Solander, D. Slip Catalogue **XII**: 113–115.

FINISHED DRAWING: watercolours *r* [ink] 'Rubus antarcticus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×230/85.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 88; Brown, R. Ms.: 12/296. 460×295/85; engraving proof *r* [pencil] 'Rubus antarcticus' [unknown]; see Moore, D. M. 1983 p. 126 fig. 92; col. engraving *BF*: pl. 683 [in preparation].

TF16 **ACAENA PUMILA** Vahl, *Enum. pl.* **I**: 298 (1804).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **II**: 89–92 'Lasiocarpus humilis'.

FINISHED DRAWING: watercolours *r* [ink] 'Lasiocarpus humilis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×225/85.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 6; Brown, R. Ms.: 1/17. 460×295/85; engraving proof *r* [pencil] 'Ancistrum humile' [unknown]; see Moore, D. M. 1983 p. 126 fig. 93; col. engraving *BF*: pl. 684 [in preparation].

DONATIACEAE

TF17 **DONATIA FASCICULARIS** Forster & G. Forster, *Char. gen. pl.*: 10, t.5 (1775).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 13–14 'Orites depressa'; Solander, D. Slip Catalogue **III**: 559–562.

FINISHED DRAWING: watercolours *r* [ink] 'Orites depressa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×235/45; see Moore, D. M. 1983 p. 211 fig. 185.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 18; Brown, R. Ms.: 2/44. 460×295/45; engraving proof *r* [pencil] 'Orites depressa' [unknown]; col. engraving *BF*: pl. 685 [in preparation].

GROSSULARIACEAE

TF18 **RIBES MAGELLANICUM** Poiret, *Encycl.*, suppl. 2: 856 (1812).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 7 'Ribes antarcticus'; Solander, D. Slip Catalogue **VI**: 599–602.

FINISHED DRAWING: watercolours *r* [ink] 'Ribes antarcticum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×255/305; see Moore, D. M. 1983 pl. 6b, col. pl.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/120. 460×295/305; engraving proof *r* [pencil] 'Ribes antarcticum' [unknown]; col. engraving *BF*: pl. 686 [in preparation].

TF19 **Escallonia serrata** Smith, *Pl. icon. ined.*, Fasc. **3**: 31 (1791).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 16, 23 'Celastrus venustus'; Solander, D. Slip Catalogue **VI**: 581–584.

Finished drawing: watercolours *r* [ink] 'Celastrus venustus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×260/290; see Carr, D. J. [Ed.] 1983 pl. 63 p. 68, col. pl.; Moore, D. M. 1983 pl. 6a, col. pl.

Copper plate: [CW]; Bacstrom, S. Ms.: 34; Brown, R. Ms.: 5/118. 460×295/290; engraving proof *r* [pencil] 'Celastrus venustus' [unknown]; see Moore, D. M. 1983 p. 126 fig. 94; col. engraving *BF*: pl. 687 [in preparation].

SAXIFRAGACEAE

TF20 **Chrysosplenium macranthum** Hooker, *Lond. J. Bot.* **1**: 458 (1842).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **X**: 767–770 'Chrysosplenium elevatum'.

Finished drawing: watercolours *r* [ink] 'Chrysosplenium elevatum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 280×225/220.

Copper plate: [GS]; Bacstrom, S. Ms.: 74; Brown, R. Ms.: 7/163. 460×295/215; engraving proof *r* [pencil] 'Chrysosplenium elevatum' [unknown]; col. engraving *BF*: pl. 688 [in preparation].

Notes: TF21 was inadvertently missed out in the original numbering sequence.

CRASSULACEAE

TF22 **Crassula moschata** G. Forster, *Commentat. Soc. Scient. gotting.*, ser. 2, **9**: 26 (1789).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 20 'Tillaea pulchella'; Solander, D. Slip Catalogue **IV**: 533–536.

Finished drawing: watercolours *r* [ink] 'Tillaea pulchella.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×225/45.

Copper plate: [WT]; Bacstrom, S. Ms.: 24; Brown, R. Ms.: 3/70. 460×295/45; engraving proof *r* [pencil] 'Tillaea pulchella' [unknown]; col. engraving *BF*: pl. 689 [in preparation].

DROSERACEAE

TF23 DROSERA UNIFLORA Willdenow, *Enum. pl.*: 340 (1809).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 13 'Drosera uniflora'; Solander, D. Slip Catalogue **VIII**: 121–124.

FINISHED DRAWING: watercolours *r* [ink] 'Drosera uniflora.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×230/225.

COPPER PLATE: *[DM]; Bacstrom, S. Ms.: 44; Brown, R. Ms.: 6/144. 460×295/25; engraving proof *r* [pencil] 'Drosera uniflora' [unknown].

GUNNERACEAE

TF24 GUNNERA MAGELLANICA Lamarck, *Encycl.* **3**: 61 (1789).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 9, 24 'Dysemone integrifolia'; Solander, D. Slip Catalogue **XVIII**: 509–512.

FINISHED DRAWING: watercolours *r* [ink] 'Dyseomone integrifolia.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×255/175; see Cook, J. 1977 p. 80 pl. VI, col. pl.; Moore, D. M. 1983 pl. 6c, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 17/412. 460×295/170; engraving proof *r* [pencil] 'Dysemone integrifolia' [unknown]; col. engraving *BF*: pl. 690 [in preparation].

TF24a GUNNERA LOBATA Hooker, f., *Fl. antarct.* (2): 274 (1846).

SPECIMEN: 2 sheets, Bay of Good Success (syntypes).

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 25 'Dysemone lobata'; Solander, D. Slip Catalogue **XVIII**: 513–514.

FINISHED DRAWING: watercolours *r* [ink] 'Dysemone lobata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×225/65.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 15/361. 460×295/65; engraving proof *r* [pencil] 'Dysemone lobata' [unknown]; col. engraving *BF*: pl. 691 [in preparation].

MYRTACEAE

TF25 MYRTEOLA NUMMULARIA (Poiret) O. Berg, *Linnaea* **27**: 397 (1856).

SPECIMEN: 2 sheets, St Vincent's Bay.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XI**: 303–306 'Leantria nitida'.

FINISHED DRAWING: watercolours *r* [ink] 'Leantria nitida.' [SP]; 'Sydney

Parkinson pinx^t 1769.'. 285×220/95.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 80; Brown, R. Ms.: 8/196. 460×295/95; engraving proof *r* [pencil] 'Leantria nitida' [unknown]; col. engraving *BF*: pl. 692 [in preparation].

HYDROCOTYLACEAE

TF26 AZORELLA LYCOPODIOIDES Gaudichaud-Beaupré, *Annls Sci. nat.* **5**: 105 (1825).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 24 'Chamitis tricuspidata'; Solander, D. Slip Catalogue **VII**: 537–539.

FINISHED DRAWING: watercolours *r* [ink] 'Chamitis tricuspidata.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 290×230/55.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 15/354. 460×295/55; engraving proof *r* [pencil] 'Chamitis tricuspidata' [unknown]; col. engraving *BF*: pl. 693 [in preparation].

TF27 BOLAX GUMMIFERA (Lamarck) Sprengel, *Spec. Umbellif.*: 10 (1818).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 10 'Chamitis complicata'; Solander, D. Slip Catalogue **VII**: 533–535.

FINISHED DRAWING: watercolours *r* [ink] 'Chamitis complicata.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 290×225/350.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 15/353. 460×295/350; engraving proof *r* [pencil] 'Chamitis complicata' [unknown]; see Moore, D. M. 1983 p. 177 fig. 147; col. engraving *BF*: pl. 694 [in preparation].

TF28 AZORELLA FILAMENTOSA Lamarck, *Encycl.* **I**: 344 (1783).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 9 'Chamitis integrifolia'; Solander, D. Slip Catalogue **VII**: 529–531.

FINISHED DRAWING: watercolours *r* [ink] 'Chamitis integrifolia.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 290×225/50.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 15/351. 460×290/45; engraving proof *r* [pencil] 'Chamitis integrifolia' [unknown]; col. engraving *BF*: pl. 695 [in preparation].

TF29 SCHIZEILEMA RANUNCULUS (d'Urville) Domin, *Bot. Jb.* **40**: 576 (1908).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 12 'Chamitis explanata'; Solander, D. Slip Catalogue **VII**: 545–547.

FINISHED DRAWING: watercolours *r* [ink] 'Chamitis explanata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×230/65.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 15/355. 460×295/65; engraving proof *r* [pencil] 'Chamitis explanata' [unknown]; see Moore, D.M. 1983 p. 177 fig. 148; col. engraving *BF*: pl. 696 [in preparation].

TF30 AZORELLA TRIFURCATA (Gaertner) Hooker f., *Fl. antarct.* (2): 283 (1846).

SPECIMEN: Terra del Fuego, Jan, 1769 (syntype).

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **VII**: 541–544 'Chamitis trifurcata'.

FINISHED DRAWING: watercolours *r* [ink] 'Chamytis trifurcata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×235/20.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 15/352. 460×295/195; engraving proof *r* [pencil] 'Chamitis trifurcata' [unknown]; see Moore, D. M. 1983 p. 177 fig. 146; col. engraving *BF*: pl. 697 [in preparation].

UMBELLIFERAE

TF31 OSMORHIZA CHILENSIS Hooker & Arnott, *Bot. Misc.* **3**: 355 (1833).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 27 'Scandix clavata'; Solander, D. Slip Catalogue **VII**: 659–662.

FINISHED DRAWING: watercolours *r* [ink] 'Scandix clavata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 455×275/410.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 9/225. 460×295/410; engraving proof *r* [pencil] 'Scandix clavata' [unknown]; col. engraving *BF*: pl. 698 [in preparation].

TF32 APIUM AUSTRALE Thouars, *Fl. Tristan d'Acugna*: 43 (1808).

SPECIMEN: Bay of Good Success.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 25 'Apium antarcticum'; Solander, D. Slip Catalogue **VII**: 691–694.

FINISHED DRAWING: watercolours *r* [ink] 'Apium antarcticum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 460×275/410; see Beaglehole, J. C. 1962 **I**: pl. 27a; Carr, D. J. [Ed.] 1983 pl. 64 p. 69, col. pl.

Copper plate: [WT]; Bacstrom, S. Ms.: 40; Brown, R. Ms.: 9/214. 455×295/405; engraving proof *r* [pencil] 'Apium antarcticum' [unknown]; see Moore, D. M. 1983 p. 177 fig. 149; col. engraving *BF*: pl. 699 [in preparation].

RUBIACEAE

TF33 **Nertera depressa** Banks & Solander ex Gaertner, *Fruct. sem. pl.* **1**: 124 (1788).

Specimen: Terra del Fuego, Jan. 1769 (isotype).

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IV**: 473–476 'Nertera depressa'.

Finished drawing: watercolours *r* [ink] 'Nertera depressa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 230×255/75.
Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/62.

TF34 **Galium aparine** Linnaeus, *Sp. pl.* **1**: 108 (1753).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 11 'Galium uliginosum'; Solander, D. Slip Catalogue **III**: 771–773.

Finished drawing: watercolours *r* [ink] 'Galium australe.' [SP]; 'Sydney Parkinson pinx^{t}: 1769.'. 350×245/285.

Copper plate: [GS]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/61. 455×295/280; engraving proof *r* [pencil] 'Galium australe' [unknown]; see Moore, D. M. 1983 p. 211 fig. 186; col. engraving *BF*: pl. 700 [in preparation].

COMPOSITAE

TF35 **Lagenifera nudicaulis** (Commerson ex Lamarck) T. Dudley, *Rhodora* **83**: 482 (1981).

Specimen: Bay of Good Success.

Manuscript: Solander, D. Pl. Terra del Fuego: 12 'Bellis revoluta'; Solander, D. Slip Catalogue **XVII**: 453–456.

Finished drawing: watercolours *r* [ink] 'Bellis revoluta.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×220/80.
Bacstrom, S. Ms.: 116.

TF36 **Chiliotrichum diffusum** (G. Forster) Kuntze, *Revis. gen. pl.* **3** (2): 141 (1898).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XVII**: 555–558 'Amellus candidus'.

FINISHED DRAWING: watercolours *r* [ink] 'Amellus candidus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 450×275/390; see Carr, D. J. [Ed.] 1983 pl. 65 p. 70, col. pl.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 14/336. 460×295/390; engraving proof *r* [pencil] 'Amellus candidus' [unknown]; see Moore, D. M. 1983 p. 238 fig. 208; col. engraving *BF*: pl. 701 [in preparation].

TF37 **ASTER VAHLII** (Gaudichaud-Beaupré) Hooker & Arnott, *Companion bot. Mag.* **2**: 49 (1836).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 14 'Aster glabratus'; Solander, D. Slip Catalogue **XVII**: 45–47.

FINISHED DRAWING: watercolours *r* [ink] 'Aster glabratus.' [SP]. 280×220/225.

COPPER PLATE: [JG]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 8/176. 460×295/225; engraving proof *r* [pencil] 'Aster glabratus' [unknown]; col. engraving *BF*: pl. 702 [in preparation].

TF38 **SENECIO HUMIFUSUS** (Hooker f.) Cabrera, *Boln Soc. argent. Bot.* **11** (4): 281 (1969).

SPECIMEN: Terra del Fuego, Jan. 1769 (holotype).

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 9–10 'Baccharis humifusa'; Solander, D. Slip Catalogue **XVI**: 489–492.

FINISHED DRAWING: watercolours *r* [ink] 'Baccharis humifusa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×225/90.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 7/172. 460×295/90; engraving proof *r* [pencil] 'Baccharis humifusa.' [unknown]; col. engraving *BF*: pl. 703 [in preparation].

TF39 **GAMOCHAETA AMERICANA** (Miller) Weddell, *Chloris andina* **1**: 151 (1856).

SPECIMEN: *.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XVI**: 403–405 'Gnaphalium littorale'.

FINISHED DRAWING: watercolours *r* [ink] 'Gnaphalium littorale.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 445×275/330.

COPPER PLATE: [CW]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 12/290. 460×295/330; engraving proof *r* [pencil] 'Gnaphalium littorale' [unknown]; see Moore, D. M. 1983 p. 238 fig. 209; col. engraving *BF*: pl. 704 [in preparation].

TF40 COTULA SCARIOSA (Cassini) Franchet, *Miss. Sci. Cap. Horn* **5**: 344 (1889).

SPECIMEN: Bay of Good Success.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XVII**: 501–504 'Cotula reptans'.

FINISHED DRAWING: watercolours *r* [ink] 'Cotula reptans.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×215/95.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 118; Brown, R. Ms.: 17/405. 460×300/90; engraving proof *r* [pencil] 'Cotula reptans' [unknown]; col. engraving *BF*: pl. 705 [in preparation].

TF41 PEREZIA MAGELLANICA (Linnaeus f.) Lagasca, *Amen. nat. Españ.* **1**: 31 (1811).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XVII**: 423–426 'Perdicium sinuatum'.

FINISHED DRAWING: watercolours *r* [ink] 'Perdicium sinuatum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.' 285×225/130; see Stearn, W. T. 1968 *Endeavour* **XXVII**: 7, fig. 6; Moore, D. M. 1983 pl. 6d, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 14/342. 460×295/130; engraving proof *r* [pencil] 'Perdicium sinuatum' [unknown]; see Moore, D. M. 1983 p. 260 fig. 225; col. engraving *BF*: pl. 706 [in preparation].

TF42 PEREZIA LACTUCOÏDES (Vahl) Lessing, *Linnaea* **5**: 22 (1830) subsp. LACTUCOÏDES.

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 15 'Perdicum laevigatum'; Solander, D. Slip Catalogue **XVII**: 427–429.

FINISHED DRAWING: watercolours *r* [ink] 'Perdicium laevigatum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×225/155.
Bacstrom, S. Ms.: 116; Brown, R. Ms.: 14/345.

TF43 PEREZIA LACTUCOÏDES (Vahl) Lessing, *Linnaea* **5**: 22 (1830) subsp. LACTUCOÏDES.

SPECIMEN: see TF42.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 15 'Perdicum laevigatum'; Solander, D. Slip Catalogue **XVII**: 427–429.

FINISHED DRAWING: watercolours *r* [ink] 'Perdicium laevigatum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 450×275/405.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 14/345.

455×295/400; engraving proof *r* [pencil] 'Perdicium laevigatum' [unknown]; see Moore, D.M. 1983 p. 260 fig. 224; col. engraving *BF*: pl. 707 [in preparation].

TF44 SENECIO TRIFURCATUS (G. Forster) Lessing, *Syn. gen. Compos.*: 392 (1832).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XVII**: 41–44 'Aster trifurcatus'.

FINISHED DRAWING: watercolours *r* [ink] 'Aster trifurcatus.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 285×225/170.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 7/173. 455×290/170; engraving proof *r* [pencil] 'Aster trifurcatus' [unknown]; col. engraving *BF*: pl. 708 [in preparation].

TF45 SENECIO ACANTHIFOLIUS Hombron & Jaquinot, *Voy. Pôle Sud.*, Atlas: t. 11 (1845).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 22 'Cineraria leucanthema'; Solander, D. Slip Catalogue **XVII**: 365–368.

FINISHED DRAWING: watercolours *r* [ink] 'Cineraria leucanthema.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 360×250/300.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 12/291. 460×295/300; engraving proof *r* [pencil] 'Cineraria leucanthema' [unknown]; see Moore, D. M. 1983 p. 260 fig. 223; col. engraving *BF*: pl. 709 [in preparation].

TF46 SENECIO ACANTHIFOLIUS Hombron & Jacquinot, *Voy. Pôle Sud.*, Atlas: t. 11 (1845).

SPECIMEN: 2 sheets, Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 23 'Cineraria purpurascens'; Solander, D. Slip Catalogue **XVII**: 361–364.

FINISHED DRAWING: watercolours *r* [ink] 'Cineraria purpurascens.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 450×270/395; see Carr, D. J. [Ed.] 1983 pl. 66 p. 71, col. pl.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 8/179. 455×290/390; engraving proof *r* [pencil] 'Cineraria purpurascens' [unknown]; col. engraving *BF*: pl. 710 [in preparation].

TF47 **Senecio darwinii** Hooker & Arnott, *Hooker's J. Bot.* **3**: 333 (1841).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 10 'Senecio tricuspidatus'; Solander, D. Slip Catalogue **xvi**: 731–733.

Finished drawing: watercolours *r* [ink] 'Senecio tricuspidatus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 280×225/210.

Copper plate: [DM]; Bacstrom, S. Ms.: 116; Brown, R. Ms.: 8/191. 455×295/230; engraving proof *r* [pencil] 'Senecio tricuspidatus' [unknown]; see Moore, D. M. 1983 p. 238 fig. 211; col. engraving *BF*: pl. 711 [in preparation].

TF48 **Senecio candidans** de Candolle, *Prodr.* **6**: 412 (1838).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 19 'Cacalia lanuginosa'; Solander, D. Slip Catalogue **xvi**: 249–252.

Finished drawing: watercolours *r* [ink] 'Cacalia lanuginosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 460×270/360.

Copper plate: [JG]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 12/289. 455×290/355; engraving proof *r* [pencil] 'Cacalia lanuginosa' [unknown]; see Moore, D. M. 1983 p. 238 fig. 210; col. engraving *BF*: pl. 712 [in preparation].

TF49 **Taraxacum gilliesii** Hooker & Arnott, *Companion bot. Mag.* **1**: 31 (1835).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 17–18 'Leontodon lycodon'; Solander, D. Slip Catalogue **xv**: 783–786.

Finished drawing: watercolours *r* [ink] 'Leontodon lycodon.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 355×255/295; see Carr, D. J. [Ed.] 1983 pl. 67 p. 72, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 7/168. 460×290/295; engraving proof *r* [pencil] 'Leontodon lycodon' [unknown]; col. engraving *BF*: pl. 713 [in preparation].

TF50 **Agoseris coronopifolium** (d'Urville) Chambers ex David Moore, *Brit. Antarc. Surv. Sci. Rep.* **60**: 137 (1968).

Specimen: Bay of Good Success.

Manuscript: Solander, D. Pl. Terra del Fuego: 18 'Leontodon pubescens'; Solander, D. Slip Catalogue **xv**: 787–790.

Finished drawing: watercolours *r* [ink] 'Leontodon pubescens.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×230/150.

Copper plate: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 7/169.

460×295/156; engraving proof *r* [pencil] 'Leontodon pubescens' [unknown]; see Moore, D. M. 1983 p. 260 fig. 226; col. engraving *BF*: pl. 714 [in preparation].

TF51 NASSAUVIA PYGMAEA (Cassini) Hooker f., *Fl. antarct.* (2): 319 (1846).

SPECIMEN: *.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 12 'Crymalea rigida'; Solander, D. Slip Catalogue **XVI**: 135–138.

FINISHED DRAWING: watercolours *r* [ink] 'Crymalaea rigida.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×225/45.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 114; Brown, R. Ms.: 7/170. 460×295/45; engraving proof *r* [pencil] 'Crymalea rigida' [unknown]; col. engraving *BF*: pl. 715 [in preparation].

CAMPANULACEAE

TF52 PRATIA REPENS Gaudichaud-Beaupré, *Annls Sci. nat.* **5**: 103 (1825).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 2 'Lobelia reptans'; Solander, D. Slip Catalogue **V**: 399–401.

FINISHED DRAWING: watercolours *r* [ink] 'Lobelia reptans.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 295×235/85.
Bacstrom, S. Ms.: 118.

ERICACEAE

TF53 PERNETTYA PUMILA (Linnaeus f.) Hooker, *Hooker's Icon. pl.* **I**: t. 9 (1837).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 4–5 'Andromeda humilis'; Solander, D. Slip Catalogue **X**: 657–660.

FINISHED DRAWING: watercolours *r* [ink] 'Andromeda humilis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×220/35.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 72; Brown, R. Ms.: 12/282. 460×295/35; engraving proof *r* [pencil] 'Andromeda humilis' [unknown]; col. engraving *BF*: pl. 716 [in preparation].

TF54 PERNETTYA PUMILA (Linnaeus f.) Hooker, *Hooker's Icon. pl.* **I**: t. 9 (1837).

SPECIMEN: see TF53.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **X**: 661–664 'Arbutus pumila'.

Finished drawing: watercolours *r* [ink] ‘Arbutus pumila.’ [SP]; ‘Sydney Parkinson pinx^t 1769.’. 290×235/50.

Copper plate: [EW]; Bacstrom, S. Ms.: 72; Brown, R. Ms.: 12/283. 465×295/55; engraving proof *r* [pencil] ‘Arbutus pumila’ [unknown]; col. engraving *BF*: pl. 717 [in preparation].

TF55 **Pernettya mucronata** (Linnaeus f.) Gaudichaud-Beaupré ex G. Don, *Gen. Hist.* **3**: 836 (1834).

Specimen: Terra del Fuego, Jan. 1769.

Manuscript: Solander, D. Pl. Terra del Fuego: 21 ‘Arbutus rigida’; Solander, D. Slip Catalogue **x**: 669–672.

Finished drawing: watercolours *r* [ink] ‘Arbutus. rigida.’ [SP]; ‘Sydney Parkinson pinx^t 1769.’. 355×250/270; see Beaglehole, J. C. 1962 **1**: pl. 28; Carr. D. J. [Ed.] pl. 68 p. 73, col. pl.

Copper plate: [DM]; Bacstrom, S. Ms.: 72; Brown, R. Ms.: 14/331. 460×295/270; engraving proof *r* [together with TF56] [pencil] ‘Arbutus rigida*α*’ [unknown]; see Moore, D. M. 1983 p. 121 fig. 86; col. engraving *BF*: pl. 718 [together with TF56] [in preparation].

TF56 **Pernettya mucronata** (Linnaeus f.) Gaudichaud-Beaupré ex G. Don, *Gen. Hist.* **3**: 836 (1834).

Specimen: Terra del Fuego.

Manuscript: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **x**: 673–675 ‘Arbutus rigida var. angustifolia’.

Finished drawing: watercolours *r* [ink] ‘Arbutus rigida. *β*’ [SP]; ‘Sydney Parkinson pinx^t 1769.’. 285×225/110.

Copper plate: [DM]; Bacstrom, S. Ms.: 72; Brown, R. Ms.: 14/331. 460×295/270; engraving proof *r* [together with TF55] [pencil] ‘Arbutus rigida *β*’ [unknown]; see Moore, D. M. 1983 p. 121 fig. 36; col. engraving *BF*: pl. 718 [together with TF55] [in preparation].

PRIMULACEAE

TF57 **Anagallis alternifolia** Cavanilles, *Icon.* **6** (1): 3 (1800).

Specimen: Bay of Good Success.

Manuscript: Solander, D. Pl. Terra del Fuego: 3 ‘Euperea amoena’; Solander, D. Slip Catalogue **x**: 733–736.

Finished drawing: watercolours *r* [ink] ‘Euparaea amoena.’ [SP]; ‘Sydney Parkinson pinx^t 1769.’. 290×235/35, 25.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 15/121. 460×295/50, 35; engraving proof *r* [pencil] 'Euparoea amoena' [unknown]; col. engraving *BF*: pl. 719 [in preparation].

EPACRIDACEAE

TF58 LEBETANTHUS MYRSINITES (Lamarck) Dusén, *Svensk. exped. Magellansl.* **3** (5): 139 (1900).

SPECIMEN: 2 sheets, Bay of Good Success.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 17 'Azalea bullata'; Solander, D. Slip Catalogue **V**: 29–32.

FINISHED DRAWING: watercolours *r* [ink] 'Azalea bullata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 355×260/280.

COPPER PLATE: [TS]; Bacstrom, S. Ms.: 28; Brown, R. Ms.: 4/83. 455×295/280; engraving proof *r* [pencil] 'Azalea bullata' [unknown]; see Moore, D. M. 1983 p. 126 fig. 91; col. engraving *BF*: pl. 720 [in preparation].

BORAGINACEAE

TF59 MYOSOTIS ALBIFLORA Banks & Solander ex Hooker f., *Fl. antarct.* (2): 329 (1846).

SPECIMEN: Terra del Fuego, Jan. 1769 (holotype).

MANUSCRIPT: Solander, D. Pl. Terra del Fuego 'Myosotis albiflora'; Solander, D. Slip Catalogue **IV**: 583–586.

FINISHED DRAWING: watercolours *r* [ink] 'Myosotis albiflora.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] 'The flower white w^{t} yellow [?] the leaves of the calyx a little reddish at the end' [SP]; 'N° 37. Myosotis albiflora' [SP]; '10' [unknown]; [ink] 'Terra del Fuego' [JB]. 275×215/100.
Bacstrom, S. Ms.: 28.

NOTE: the annotation on the verso of the finished drawing is difficult to read as Parkinson's note has been written over by a later hand.

LENTIBULARIACEAE

TF60 PINGUICULA ANTARCTICA Vahl, *Enum. pl.* **I**: 192 (1804).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **I**: 685–686 'Pinguicula obtusa'.

FINISHED DRAWING: watercolours *r* [ink] 'Pinguicula alpina.' [SP]; 'Sydney

Parkinson pinx^t 1769.'. 285×230/95.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 8; Brown, R. Ms.: 25/601. 465×295/95; engraving proof *r* [pencil] 'Pinguicula obtusa' [unknown]; see Moore, D. M. 1983 p. 211 fig. 184; col. engraving *BF*: pl. 721 [in preparation].

PLANTAGINACEAE

TF61 PLANTAGO BARBATA G. Forster, *Commentat. Soc. Scient. gotting.*, ser. 2, **9**: 25 (1789).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 20 'Plantago polymorpha'; Solander, D. Slip Catalogue **I**: 251–254.

FINISHED DRAWING: watercolours *r* [ink] 'Plantago polymorpha' [SP]; 'Sydney Parkinson pinx^t 1769.'. 285×225/165; see Carr, D. J. [Ed.] 1983 pl. 69 p. 74, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 22; Brown, R. Ms.: 3/68. 460×295/170; engraving proof *r* [pencil] 'Plantago polymorpha' [unknown]; see Moore, D. M. 1983 p. 211 fig. 183; col. engraving *BF*: pl. 722 [in preparation].

THYMELAEACEAE

TF62 DRAPETES MUSCOSUS Banks ex Lamarck, *J. Hist. nat.* **I**: 189, t. 10, f. 1 (1792).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IV**: 421–423 'Drapetes muscosus'.

FINISHED DRAWING: watercolours *r* [ink] 'Drapetes muscosus.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 290×235/55; see Moore, D. M. 1983 p. 163 fig. 130.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 20; Brown, R. Ms.: 3/56. 460×295/55; engraving proof *r* [pencil] 'Drapetes muscosus' [unknown]; col. engraving *BF*: pl. 723 [in preparation].

MISODENDRACEAE

TF63 MISODENDRUM BRACHYSTACHYUM de Candolle, *Coll. mém.* **6**: 14 (1830).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 5–6 'Myzodendron planifolium'; Solander, D. Slip Catalogue **XX**: 129–132.

FINISHED DRAWING: watercolours *r* [ink] 'Myzodendrum planifolium.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 360×250/285.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 17/421. 460×295/285; engraving proof *r* [pencil] 'Myzodendron planifolium' [unknown];

see Moore, D. M. 1983 p. 163 fig. 133; col. engraving *BF*: pl. 724 [in preparation].

TF64 **MISODENDRUM PUNCTULATUM** Banks ex de Candolle, *Coll. mém.* **6**: 13 (1830).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 6–7 'Myzodendrum punctulata'; Solander, D. Slip Catalogue **XX**: 125–127.

FINISHED DRAWING: watercolours *r* [ink] 'Myzodendrum punctulatum.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×230/205.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 132; Brown, R. Ms.: 17/420. 460×295/205; engraving proof *r* [pencil] 'Myzodendron punctulatum' [unknown]; see Moore, D. M. 1983 p. 163 fig. 132; col. engraving *BF*: pl. 725 [in preparation].

SANTALACEAE

TF65 **NANODEA MUSCOSA** Banks ex C. F. Gaertner, *Suppl. carp.*: 251, t. 225, f. 9 (1807).

SPECIMEN: Terra del Fuego, Jan. 1769 (isotype).

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **VII**: 14a–14b 'Nanodea muscosa'.

FINISHED DRAWING: watercolours *r* [ink] 'Nanodea muscosa.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×230/45.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 36; Brown, R. Ms.: 17/404. 460×300/45; engraving proof *r* [pencil] 'Nanodea muscosa' [unknown]; see Moore, D. M. 1983 p. 163 fig. 131; col. engraving *BF*: pl. 726 [in preparation]; see Adams, B. 1986 col. pl.

FAGACEAE

TF66 **NOTHOFAGUS BETULOIDES** (Mirbel) Oersted, *K. dansk. Vidensk. Selsk. Skr.*, ser. 5, **9**: 354 (1871).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XIX**: 379–381 'Betula antarctica'.

FINISHED DRAWING: watercolours *r* [ink] 'Betula antarctica.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 360×250/295.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 126; Brown, R. Ms.: 14/337. 460×295/290; engraving proof *r* [pencil] 'Betula antarctica' [unknown]; col. engraving *BF*: pl. 727 [in preparation].

TF67 NOTHOFAGUS ANTARCTICA (G. Forster) Oersted, *K. dansk. Vidensk. Selsk. Skr.*, ser. 5, **9**: 354 (1871).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 26–27 'Fagus antarctica'; Solander, D. Slip Catalogue **XIX**: 353–356.

FINISHED DRAWING: watercolours *r* [ink] 'Fagus antarctica.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 360×250/280; see Carr, D. J. [Ed.] 1983 pl. 70 p. 75, col. pl.; Moore, D. M. 1983 pl. 5b, col. pl.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 128; Brown, R. Ms.: 17/403. 460×295/280; engraving proof *r* [pencil] 'Fagus antarctica' [unknown]; see Moore, D. M. 1983 p. 121 fig. 84; col. engraving *BF*: pl. 728 [in preparation].

EMPETRACEAE

TF68 EMPETRUM RUBRUM Vahl ex Willdenow, *Sp. pl. ed. 4*, **4** (2): 713 (1806).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 23 'Empetrum rubrum'; Solander, D. Slip Catalogue **XX**: 45–47.

FINISHED DRAWING: watercolours *r* [ink] 'Empetrum rubrum' [SP]; 'Sydney Parkinson pinx^t 1769.'. 365×260/280.

COPPER PLATE: [DM]: Bacstrom, S. Ms.: 132; Brown, R. Ms.: 17/424. 460×295/275; engraving proof *r* [pencil] 'Empetrum rubrum' [unknown]; col. engraving *BF*: pl. 729 [in preparation].

ORCHIDACEAE

TF69 CODONORCHIS LESSONII (d'Urville) Lindley, *Gen. sp. orchid. pl.*: 411 (1840).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 1–2 'Arethusa trifolia'; Solander, D. Slip Catalogue **XVIII**: 321–324.

FINISHED DRAWING: watercolours *r* [ink] 'Arethusa trifolia.' [SP]; 'Sydney Parkinson pinx^t 1769.'. 365×245/280.

COPPER PLATE: [G. Smith]; Bacstrom, S. Ms.: 122; Brown, R. Ms.: 15/364. 460×295/280; engraving proof *r* [pencil] 'Arethusa trifolia' [unknown]; col. engraving *BF*: pl. 730 [in preparation].

PHILESIACEAE

TF70 LUZURIAGA MARGINATA (Banks & Solander ex Gaertner) Bentham & Hooker f., *Gen. pl.* **3** (2): 768 (1883).

SPECIMEN: Terra del Fuego, Jan. 1769 (isotype).

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IX**: 147–150 'Enargea marginata'.

FINISHED DRAWING: watercolours *r* [ink] 'Enargea marginata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×230/215.

COPPER PLATE: [D]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 8/187. 460×295/215; engraving proof *r* [pencil] 'Enargea marginata' [unknown]; col. engraving *BF*: pl. 731 [in preparation].

LILIACEAE

TF71 ASTELIA PUMILA (G. Forster) Gaudichaud-Beaupré, *Annls Sci. nat.* **5**: 101 (1825).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: Solander, D. Pl. Terra del Fuego: 10 'Anthericum trifarium'; Solander, D. Slip Catalogue **VIII**: 653–656.

FINISHED DRAWING: watercolours *r* [ink] 'Anthericum trifarium.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 290×235/45.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 48; Brown, R. Ms.: 11/261. 460×295/45; engraving proof *r* [pencil] 'Anthericum trifarium' [unknown]; see Moore, D. M. 1983 p. 338 fig. 267; col. engraving *BF*: pl. 732 [in preparation].

JUNCACEAE

TF72 ROSTKOVIA MAGELLANICA (Lamarck) Hooker f., *Fl. antarct.* (1): 81 (1844).

SPECIMEN: Terra del Fuego, Jan. 1769.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IX**: 101–104 'Juncus uniglumis'.

FINISHED DRAWING: watercolours *r* [ink] 'Juncus uniglumis.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 285×225/130.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 8/182. 460×295/130; engraving proof *r* [pencil] 'Juncus uniglumis' [unknown]; see Moore, D. M. 1983 p. 322 fig. 259; col. engraving *BF*: pl. 733 [in preparation].

TF73 JUNCUS SCHEUCHZERIOIDES Gaudichaud-Beaupré, *Annls Sci. nat.* **5**: 100 (1825).

SPECIMEN: Bay of Good Success.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IX**: 105–108 'Juncus luridus'.

FINISHED DRAWING: watercolours *r* [ink] 'Juncus luridus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'; *v* [pencil] 'Calicis brownish the gluma dirty straw colour the bottoms of the lower leaves.' [SP]; 'The isthmi are so much to strongly expressed that

I fear the whole must be drawn over again.' [unknown]; [ink] 'Terra del Fuego' [JB]. 295×230/210.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 11/263. 460×295/210; engraving proof *r* [pencil] 'Juncus luridus' [unknown]; see Moore, D. M. 1983 p. 322 fig. 261; col. engraving *BF*: pl. 734 [in preparation].

TF74 MARSIPPOSPERMUM GRANDIFLORUM (Linnaeus f.) Hooker f., *Hooker's Icon. pl.* **6**: t. 533 (1843).

SPECIMEN: Terra del Fuego, Jan. 1769

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **IX**: 77–80 'Juncus uniflorus'.

FINISHED DRAWING: watercolours *r* [ink] 'Juncus uniflorus.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 460×280/420.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 50; Brown, R. Ms.: 7/157. 460×295/415; engraving proof *r* [pencil] 'Juncus uniflorus.' [unknown]; see Moore, D. M. 1983 p. 322 fig. 260; col. engraving *BF*: pl. 735 [in preparation].

CYPERACEAE

TF75 CARPHA ALPINA R. Brown var. SCHOENOIDES (Banks & Solander ex Hooker f.) Kükenthal, *Reprium Spec. nov. Regni veg.* **47**: 113 (1939).

SPECIMEN: Terra del Fuego. Jan. 1769 (holotype).

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **II**: 539–542 'Carpha schoenoides'.

FINISHED DRAWING: watercolours *r* [ink] 'Carpha schoenoides.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 365×245/280.

COPPER PLATE: [WT]; Bacstrom, S. Ms.: 12; Brown, R. Ms.: 2/40. 455×295/280; engraving proof *r* [pencil] 'Carpha schoenoides' [unknown]; see Moore, D. M. 1983 p. 338 fig. 266; col. engraving *BF*: pl. 736 [in preparation].

JUNCAGINACEAE

TF76 TETRONCIUM MAGELLANICUM Willdenow, *Magazin Ges. naturf. Fr. Berl.* **2**: 17 (1808).

SPECIMEN: St Vincent's Bay.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XX**: 369–372 'Chortodea ensata'.

FINISHED DRAWING: watercolours *r* [ink] 'Chortodea ensata.' [SP]; 'Sydney Parkinson pinx^{t} 1769.'. 280×220/100.

COPPER PLATE: [DM]; Bacstrom, S. Ms.: 134; Brown, R. Ms.: 14/339. 460×295/95; engraving proof *r* [pencil] 'Chortodea ensata' [unknown]; see Moore, D. M. 1983 p. 322 fig. 258; col. engraving *BF*: pl. 737 [in preparation].

LYCOPODIACEAE

TF77 LYCOPODIUM MAGELLANICUM (P. Beauvois) Swartz, *Syn. fil.*: 180 (1806).

SPECIMEN: *.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XXII**: 12–13 'Lycopodium glabellum'.

FINISHED DRAWING: watercolours *r* [ink] 'Lycopodium glabellum.' [SP]; 'Sydney Parkinson pinx^t: 1769'. 285×225/50.

COPPER PLATE: [GS]; Bacstrom, S. Ms.: 148; Brown, R. Ms.: 17/406. 460×295/50; engraving proof *r* [pencil] 'Lycopodium glabellum' [unknown]; col. engraving *BF*: pl. 738 [in preparation].

ASPIDIACEAE

TF78 POLYSTICHUM MOHRIÖIDES (Bory ex d'Urville) C. Presl, *Tent. pterid.*: 83 (1836).

SPECIMEN: Bay of Good Success.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XXII**: 219–220b 'Polypodium paleaceum'.

FINISHED DRAWING: watercolours. 370×260/275.
Bacstrom, S. Ms.: 144.

LESSONIACEAE

TF79 MACROSYSTUS PYRIFERUS (Linnaeus) Agardh, *Spec. alg.* **I**: 47 (1820).

SPECIMEN: see TF80.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XXIII**: 101a–102b 'Fucus giganticus'.

FINISHED DRAWING: watercolours *r* [ink] 'Fucus giganteus' [SP]; 'Sydney Parkinson pinx^t 1769.'. 465×280/385; see Adams, B. 1986 p.37, col. pl.
Bacstrom, S. Ms.: 148.

TF80 MACROCYSTUS PYRIFERUS (Linnaeus) Agardh, *Spec. alg.* **I**: 47 (1820).

SPECIMEN: no locality.

MANUSCRIPT: [not in Solander, D. Pl. Terra del Fuego]; Solander, D. Slip Catalogue **XXIII**: 101a–102b 'Fucus giganticus'.

FINISHED DRAWING: watercolours *r* [ink] 'Fucus giganteus'. [SP]; 'Sydney Parkinson pinx^t 1769.'. 465×275/405.
Bacstrom, S. Ms.: 148.

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